

George W. Batchelder.

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1883



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Every Time It Is Loaned

The practice of lending your City Directory, in a great measure, is responsible for the increasing cost of Directory Service.

The reason is: —

There is a definite cost involved in the making of the Directory of Your City.

This cost must be absorbed by the subscribers — be they one — or be they 1000.

If there were but **One Subscriber** to the City Directory — the **one subscriber** would of necessity have to absorb **The Whole Cost**.

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From which it is obvious that the **Greater** the number of subscribers — the **Lesser** the cost to each.

And

It is also obvious that the **Lesser** the number of subscribers — the **Greater** the cost to each.

Every time you loan your City Directory the **Less Necessity** there is for the **Borrower to Subscribe for the Service**.

More Borrowers result in **Fewer Subscribers** which means **Increased Cost**.

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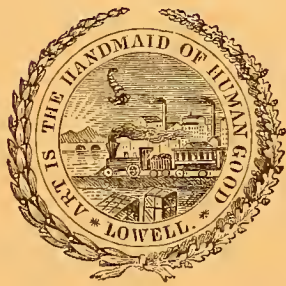
CITY DOCUMENTS

OF THE

CITY OF LOWELL

FOR THE YEAR

1882-'83.



LOWELL, MASS.:

PRINTED BY CAMPBELL & HANSCOM, 22 CENTRAL STREET.

1883.

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~~Lowell City Library.~~

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Extract from the Ordinances of Lowell.

CHAPTER V.—CITY DOCUMENTS.

SECTION 1. All City Documents (except the rules and regulations for the government of the police and fire departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECT. 2. All City Documents shall annually be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be deposited in the city library, and one copy in the library of the Middlesex Meehanics Association. One copy shall be sent to each city of the Commonwealth, to the library of Harvard College, the public library of Boston, the State library, and the Smithsonian Institution at Washington.

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THE INAUGURAL ADDRESS

OF

HIS HONOR

JOHN J. DONOVAN,

MAYOR OF THE CITY OF LOWELL,

TO THE

TWO BRANCHES OF THE CITY GOVERNMENT,

JANUARY 1, 1883.



LOWELL:

HARRINGTON BRO'S, PRINTERS, SUN OFFICE.

1883.

CITY OF LOWELL.

IN COMMON COUNCIL, January 1, 1883.

ORDERED, If the Board of Aldermen concur, That His Honor the Mayor be requested to furnish a copy of his Inaugural Address for publication.

IN COMMON COUNCIL, January 1, 1883.

Read and adopted; sent up for concurrence.

DAVID CHASE, *Clerk*.

IN BOARD OF ALDERMEN, January 1, 1883.

Read and adopted in concurrence.

DAVID W. O'BRIEN, *City Clerk*.

ADDRESS.

GENTLEMEN OF THE CITY COUNCIL :

We have been called upon by the suffrages of our fellow-citizens to administer the municipal government for the ensuing year, and we to-day take upon ourselves those duties and responsibilities, I trust, fully realizing their gravity. Let us endeavor to work in unison for the welfare of our beloved city. The interests of our city demand more than ever a careful, wise and judicious policy, and we must exercise the most extreme care, that no scheme for improvements that has more of private than public interests to serve be engaged in, as our tax payers have the right to insist that no money be expended that the public generally does not require. The best interests of all render it an absolute necessity that a wise practical economy be closely observed. Exercising comprehensive views of the wants of the community, for whom we are acting, not guarding the interests of any particular class or body, but keeping constantly before us that which is the fundamental

principle of true government, viz.: “the greatest good to the greatest number,” and by thus acting, the best interests of the city will be subserved, and its material prosperity insured and increased.

Our city has long been, and is now, noted for its manufacturing and mechanical industries, and to the end that they may be fostered, we can by judicious expenditures, and keeping closely within our appropriations, so reduce our taxes that other similar enterprises will be induced to locate with us, thus insuring an increased demand for labor, and, as a natural consequence, our population will increase proportionately, and labor will receive as its reward fair compensation. All measures pertaining to the welfare of our city and its people will receive, I assure you, my co-operation and cheerful support; and upon the expiration of our official term, I trust we may have the inner consciousness of having done our entire duty.

FINANCES.

The first subject to which I call your attention is that of our finances, as furnished me by the auditor :

The balance in the treasury Jan. 1, 1882, was.....	\$ 21,309 78
The amount received into the treasury during the year was.....	1,806,780 90
Total.....	\$1,828,090 68
The amount paid from the treasury during the year was.....	1,595,153 11
The balance in the treasury Dec. 31, 1882, was..	<u>\$232,937 57</u>

CITY DEBT.

The amount of the ordinary city debt, Jan. 1, 1882, was.....	\$514,300 00
This has been increased by sums borrowed during the year 1882.....	501,000 00
	<u>\$1,015,300 00</u>
There has been paid during the year 1882 on account of the ordinary city debt.....	65,000 00
Total ordinary city debt, Dec. 31, 1882.....	\$950,300 00
The debt of the city on account of Water Works, Dec. 31, 1882, was.....	1,875,000 00
Total debt of the city, Dec. 31, 1882.....	<u>\$2,825,300 00</u>
The amount of the ordinary city debt Dec. 31, 1882 was.....	\$950,300 00
The amount of the several Sinking Funds for the pay- ment of the same, Dec. 31, 1882, was....	116,566 91
Nct ordinary debt of the city Dec. 31, 1882.....	\$833,733 09
The amount of the city debt on account of Water Works, Dec. 31, 1882, was.....	\$1,875,000 00

The amount of the Sinking Funds for the payment of	
the same, Dec. 31, 1882, was.....	356,459 52
Net debt of the city on account of Water Works, Dec.	
31, 1882.....	\$1,518,540 48
Net ordinary city debt.....	\$833,733 09
Net debt on account of Water Works.....	1,518,540 48
Total net debt of the city Dec. 31, 1882.....	\$2,352,273 57
Net debt of the city Jan. 1, 1883.....	\$2,352,273 57
Net debt of the city, Jan. 1, 1882.....	1,992,868 65
Increase of net city debt during the year 1882.....	\$359,404 92

This statement is worthy of the most serious consideration. The increase of the city debt for the past year is \$446,000, which involves increased appropriation for interest, and for the creation of the necessary sinking funds to extinguish the debt at its maturity. Under the circumstances the utmost prudence in expenditures is advisable, so that the debt may not be still further increased or the tax-rate made unduly heavy. During the coming year, \$90,000 of the city debt, of which \$50,000 is provided for by a sinking fund, becomes due; also the sum of \$40,000 additional, which was borrowed on the city note for one year to pay the increased expenditure for streets, will have to be provided for by taxation. The balance in the treasury is \$232,937.57 against \$21,309.78 at the beginning of 1882, but this bal-

ance is more apparent than real, and is not available for the expenditures which this City Council will be required to make. Of this sum, \$222,174.31 is already appropriated and credited to the account of works now in process of construction, divided as follows : Intercepting sewer, \$12,097.36 ; Aiken street bridge, \$75,176.39 ; Central bridge, \$102,380.67 ; City Farm buildings, \$32,519.89. This leaves an actual balance in the treasury to be applied to the appropriations of the current year, of \$10,763.26.

PUBLIC SCHOOLS.

Among the things which are of the most vital importance is the education of our children, for upon this depend the well-being of society and the perpetuity of our institutions. Our public school system has been justly termed the "bulwark of our nation." Personally knowing and fully appreciating the great good which they have accomplished and still continue to do, and how much our citizens generally owe to public education, for our educational interests are in reality the most important department in our city, I feel that the value of our school system cannot be over-estimated. Although the care and supervision of our schools devolve upon another department of our

government, I trust your appropriations will be fully commensurate with their necessities. But with all my appreciation of our schools, I feel that changes should be made in some particulars. Of the entire number of children entering our Grammar Schools, only a very small percentage graduate to our High school, owing in most cases to inability on the part of the parents to allow them to continue. For such a special training should be instituted, and they should be well-grounded in those rudiments, which will be of the greatest practical advantage.

The appropriation for schools, all of which was expended, was \$153,907.51.

EVENING SCHOOLS.

During the past year, evening schools have been held in the Green school-house, the Common street school-house, Lyon street school-house, the Ward Six Ward Room and the Mission-school building in Central-ville, and have had an average attendance of 744. The necessity of such schools is very great, as they enable a portion of our people, who were deprived of early advantages, and whose necessities are such that they must labor through the day to avail themselves of the opportunity to grasp the rudiments of

an education, and thereby make themselves better men and women, better parents and better citizens. The schools for drawing, designing and modelling are bearing good fruits, and growing rapidly in the estimation of our people. For the details of the entire school results and their present condition, I refer you to the report of the Superintendent of Schools, which will soon be placed before you.

SCHOOL HOUSES.

During the past year the construction of a new Grammar School building, located on Gorham street, to be known as the Butler school, has been commenced, and it will be ready for occupancy at the beginning of the September term of the present year. It will accommodate 450 scholars, thereby relieving the Edson school, which has been crowded to repletion. We now have 80 Primary and 8 Grammar schools, together with our High school on Kirk street. The High school at no distant day will have to be enlarged. Owing to the rapid increase in our population, more Primary school buildings will be needed the present season. One should be erected near the intersection of Powell and Smith streets, which will relieve the Pine street school and give more room in that build-

ing for the advanced scholars. The school on London street is much crowded. The building should be raised, thereby adding another room, which will accommodate 40 additional scholars. A change is also recommended in the Mount Hope street school, now being kept in a private dwelling, hired by the city. It would be well to erect a school building in that locality. I would, however, call your attention to the fact that while it is very essential that our school buildings should possess all the modern conveniences, it would be well to consider the old maxim, "There is no royal road to learning," and buildings of plain exterior will answer all practical purposes and materially reduce the expenditures.

For school houses, \$45,409.57 was appropriated and all of it was expended.

CITY LIBRARY.

The library is known to every adult, and almost every child entering his teens. When we stop and consider how important it is that so valuable an institution should be fostered and protected, how much good it has done and continues to accomplish by cultivating the habit of reading among the young, we feel that it is well worthy of all our care, for

upon its shelves may be found works that will interest and benefit all, from light reading, carefully selected, to such works as will attract the student and scholar.

The total number of volumes now in Library is 25,983, an increase of 1,977 for the year ; number of subscribers, 1,843 ; daily average of books distributed, 310. The Library sustained a severe loss in the death of Marshall H. Clough, whose services as Librarian covered a space of 13 years, and who by his intelligent and faithful performance of his duties had proved himself a devoted public servant, and by his uniform courtesy to the patrons had endeared himself to all. Mr. F. P. Hill, the present Librarian, was elected to fill the vacancy caused by the death of Mr. Clough, July 11.

The balance standing to the credit of this department from its total receipts is \$6.18.

LICENSES.

We find upon our statute books a law regulating the sale of intoxicating liquors. Under this law, the voice of the people at our recent municipal election declared that Licenses may be granted. It rests with you, gentlemen of the Board of Aldermen, to

carry this decision into effect. While the desire of the people is that Licenses shall be issued, I believe it is also their wish that prudence and a careful attention to the spirit of the law shall be exercised in granting them. The law, it should be remembered, is one to regulate the liquor traffic, and in its execution we are bound to keep that fact in view, and so adjust the business that the best interests of the City may be advanced.

POLICE.

The efficiency of this department is a prime necessity. In the selection of your Police, great care and judgment should be used, as upon them depend to a very great extent the preservation of public order and protection to life and property. Our Police should understand that they cannot be injured by unjust criticism or complaints, and that the retention of their position depends upon the qualifications they possess, and their capacity to discharge their duties, and in order that the force should be thoroughly efficient, it is essential that it be composed of men of more than average intelligence and in the prime of life. The station house generally is in excellent condition, as some much-

needed improvements have been made during the past year. A padded cell for the insane has been added, and arrangements are being made for a portion of the force to sleep at the station, so that they can be called upon at an instant's notice, should the emergency of the case require it. Sub-stations in Wards One, Two, Three, and Four, where prisoners can be kept over night, are recommended, as by this means the several beats would be left unprotected but for a short time when our patrolmen are conveying prisoners. The sub-stations can also be used as voting places, thus supplying a want now much felt. The force now comprises 57 regular officers and 10 Supernumeraries. For a detailed report of the past year I refer you to that of the Marshal.

In order that the public may be afforded better protection and property rendered more secure, I would recommend that the length of the beats be shortened and additional patrolmen appointed.

The appropriation for police was \$65,505.68; expended, \$64,425.09; balance, \$1,080.59.

FIRE DEPARTMENT.

Our City has been unusually exempt from fires during the past year, and the loss comparatively

small. A personal inspection of the department has convinced me of its efficiency, reflecting much credit on the heads of the department and also upon the Committee on Fire Department for the past year. The expense for alterations and improvements during the coming year will be slight. I would recommend that the interior of the house on Branch street be changed so that the sleeping apartments for the drivers be on the ground floor. While this would make it much more convenient for them, and enable them to start sooner when called upon, it would at the same time give more space on the upper floor for Ward Room purposes. I would also advise a similar change in the house on Fourth street. The total loss by fire last year was \$21,297, of which \$4,797 was covered by insurance. The department now comprises 8 hose carriages, 3 steamers, 13,600 feet hose, 1 protective wagon, 118 men.

The Fire Department had an appropriation of \$62,149.40; expended \$59,429.47; and has a balance of \$2,719.93.

THE STREET-LIGHTING DEPARTMENT,

which is under the supervision of the head of the Fire Department, has at present 813 gas and 233

gasoline lights. A change in the method of management of Street Lights would be advisable. On the principal streets the present 4-foot burners are inadequate, and 6-foot burners should be substituted; and a portion of the lights should remain burning until 5 o'clock, whereas they are now turned off at 3, during the winter months, as there are many who have occasion to begin labor at that hour.

The appropriation for lighting was \$23,771.05; expended \$22,959.05; balance \$812.

PUBLIC BUILDINGS.

Our Superintendent reports the present condition quite good. I referred in my remarks on Police to the advisability of sub-stations, which could also be used as voting precincts. Our City will be redistricted in 1885, and in all probability what is now known as Centralville will constitute a separate ward. The building on Fourth street, which is now used by the Fire department, can also be used as a voting precinct and sub-station. A new Ward Room is much needed in Ward One, and should a location be selected in the upper portion of the Ward, a sub-station can be placed in the same building. A new

building to be used as a station should be placed in Ward Six, on Church street, and another in Ward Four, in the vicinity of the Middlesex street depot, and in this locality it would be advisable to erect such a one as would serve as a station and voting precinct. Since the change in Huntington hall the receipts for the rental have materially increased ; for the past year the net receipts were \$7,000.

The expenditures on public buildings have been \$11,657.13, out of an appropriation of \$18,597.47 ; \$5,708.15 having been transferred to other appropriations, leaving a balance of \$1,232.19.

BRIDGES AND ROADS.

The stone work on the Aiken street bridge is now completed, and the iron trusses are placed in position on one span. The filling on the Centralville shore is progressing, and it will require but a short time longer to have a permanent roadway. The entire cost of the structure will not vary much from the appropriation. Let us hope that the public convenience will be benefited in proportion to its expense. The City suffered a large loss, and the public a great inconvenience, by the accidental destruction by fire of the Central bridge. The new struc-

ture, which is contracted for at an expense of \$117,000, will be of the Pratt truss pattern, 55 feet wide in the clear, with a driveway of 34 feet, and two sidewalks of 16 feet each, and will be completed the coming summer. The work on the foundation and piers is progressing, but will not be finished until March 1st. The proposition for a bridge across Concord River is a matter that will come before you in due time. There have been laid during the past year 4,107 feet of brick sewers (this is independent of the intercepting sewer) and 13,062 feet of pipe sewers, a total of 17,169 feet, or three and a quarter miles; 15,223 square yards of granite paving have been laid on the following streets: Gorham, Middlesex, Market, Hurd and Salem; 12,884 lineal feet of granite curbstones have been set, and 7,550 square yards of concrete laid.

The following named streets have been laid out and accepted: Belmont, from Whitman to Wyman; Broadway, from the westerly line of Suffolk over western canal; Mansur, from Fairmount to Belmont avenue; Methuen, grade established from Seventh to town line; Pine, from Westford to Baldwin; South Whipple, from Lawrence southerly; West from Coburn

to River ; Whitman, from Fairmount to Belmont avenue. The wooden pavement on Bridge street is in a very bad condition, and should be replaced with granite blocks. Our streets generally are in good condition, with the exception of Lawrence street, which has not been kept in repair, as it will soon be obstructed on account of the sewer.

The appropriation and receipts of the Street Department were \$156,902.21, and all of this large sum, except \$11,174.53, was expended, \$3,121.13 being transferred to other appropriations.

COMMONS.

While I am convinced that whatever is done to increase the material advantages and attractions of our City will prove in the end to be valuable investments, I am strongly of the opinion that, with our present heavy expenditures for bridges and sewers, it would not be expedient to encourage, directly or indirectly, any further investments for new parks. Our Commons, as we have them, will prove ample for years to come, and when the proper time arrives, available land can be found at a reasonable price. The fences on both Commons will require extensive repairs, and it is worthy of serious consideration

whether it would not be more practical economy to remove them entirely and substitute granite curbing. While the first expense would be large, still it would be done for all time. The fountain on the North Common, begun in 1881, has been completed at a cost of about \$4,000.

SEWERS AND DRAINS.

One of the largest appropriations now made is for building sewers, which were largely necessitated by the introduction of city water. One of these, the intercepting sewer, is very large and expensive, but will, when completed, provide for the drainage of the greater portion of the southerly part of the City. With this completed, and one or two others yet to be built, all parts of our City will be fairly well provided for except Pawtucketville, which will soon require a thorough system of sewerage.

Ordinary sewer work has cost \$107,253.48 of an appropriation of \$112,148.61, leaving a balance of \$4,895.13.

WATER WORKS.

During the past year the High Service System has been substantially completed at a cost of \$68,867.98, which is \$2,832.02 less than the estimate.

The number of dwellings supplied by the System is as follows: Belvidere, 39; Centralville, 66. Additions to this System, as well as to the Low Service, will have to be made in the laying of new mains, as they may be called for. The Water Board adheres to the rule of laying 125 feet of main pipe to a taker, or requires a guarantee of 6 per cent. on the cost of laying. During the past year 400 new services have been put in, showing an increase of 20 over 1881. We have now laid 48 miles of Services and 70 miles of main pipe. The total income for the past year from all sources will be \$140,000. The interest on the bonds is \$112,000, leaving a balance in favor of the Board of \$28,000, which will pay the entire expense of the department except the cost of the new main pipe.

PUBLIC HEALTH.

The subject of health is one of prime importance to every citizen. All measures calculated to promote health and prevent disease should receive our hearty approval and support. We should see that all rules and regulations adopted by former City Governments for this purpose are strictly observed. This department is committed particularly to the care of

the Board of Health, which has important duties to perform. Within a few years it has been found that by application of sanitary agencies a large amount of disease can be prevented, especially those of a contagious nature. It is understood that by precautions of this kind, measles, diphtheria and scarlet fever have been much abridged. One of the most common complaints under the head of nuisances arises from privy vaults poorly constructed and situated in yards, beneath windows which open into sleeping-rooms, kitchens and living rooms. I would urge the more general introduction of water closets into all tenement blocks and other buildings in the more compact parts of our City.

The Health Department has cost \$8,255.49, and a balance of \$214.01 stands to its credit.

STATE AID.

Among the worthy poor there are none more deserving of our sympathy and assistance than the disabled veterans and the widows and orphans of the late Rebellion. These expenditures, for the past year, under the laws of 1879, Chapters 252 and 301, have been \$19,060.50, of which amount the State reimburses to the City \$14,069.75, leaving the net amount actually expended \$4,636.75.

PAUPERS.

Owing to many causes, some quite obvious and others remote, the demand upon the city for the past year has been large. While, under all circumstances, it is not only humane, but just and right, that all needing help should be assisted, still it requires close discrimination to separate the worthy poor from those less deserving. On general principles, it is advisable to make as few paupers as possible, and in all cases where temporary assistance will enable those applying for help to bridge over, until they can fully support themselves, it should always be given. On the other hand, there are those who are entirely dependent on the Pauper department, and this class are Paupers in the true sense of the word and should be provided for at the Farm. The buildings at the Farm were erected many years ago, when but little attention was paid to ventilation and other sanitary matters which time has demonstrated to be of the utmost importance, and the demands had entirely outgrown their capacity. The Board of Overseers of the Poor, of which I had the honor to be a member, deemed it advisable to petition our last City Council for an appropriation of \$60,000 to erect such buildings as

were deemed necessary. We have now in process of construction buildings combining all the modern improvements, heating, ventilation, etc., perfect in their appointments, which will accommodate 450 persons, and, by a slight expenditure, 50 additional. It is the intention, when our building for the Insane is complete, to take from the Asylums at Danvers, Worcester and Northampton, those persons who are city charges; and it is the intent of the Overseers, upon the completion of the buildings, to classify the inmates, and keep them separate, which has not been done in the past. Through a variety of causes, there has been a marked delay in the construction of the buildings, and they will not be ready for occupancy until the late spring months. We have now at the Farm a total of 224 persons. I refer you for details to the report of the Superintendent.

The appropriation for Paupers was \$57,041.33; expenditures, \$52,354.56; balance, \$4,686.77.

THE PURCHASE OF SUPPLIES.

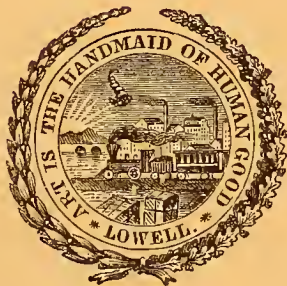
With the rapid increase in our population, our methods for managing the business of the City in some particulars have not kept pace. In all well

regulated mechanical industries, the question of purchasing supplies and caring for the same has been managed with precision and economy. While I am well aware that the business of the City cannot be managed as closely, still we should approach it as near as may be, and I should advise that Section 5, Chapter 12, of the Ordinances be amended respecting the purchase of material, and that the purchase of all supplies used by the Superintendent of Public Buildings and Superintendent of Streets, except wood and coal, be vested in a Committee, consisting of one member of the Board of Aldermen and two members of the Common Council, with the Superintendents of both departments, members ex-officiis, and that such supplies be purchased in large quantities, and that sealed proposals for the supply of the same shall be received from any or all of the Lowell dealers; that a suitable storehouse for safe keeping of the same be provided and a clerk employed, whose duties it shall be to deliver whatever may be required on an order, signed by the head of either department, the clerk to make proper entry of same, and be held to strict accountability for the faithful discharge of his duties. I do not wish to be misconstrued, or understood to cast any

reflections on the past or present management of either department, but I deem such a change very essential, and it should interest every citizen.

GENTLEMEN, I have sought to call your attention to a portion of many important matters which may require your consideration. Let us earnestly endeavor to conduct the business of the City in harmony, having for our ulterior object this, and this alone, to do our whole duty, do it honestly and fearlessly. To say we will not err would be presumption, for we are all human, but whatever ability nature has blessed us with, let us use it, so that we may be able to prove to each and every one of our fellow citizens, that the best interests of the City, in whose advancement we are all so deeply interested, will not suffer at our hands.

MUNICIPAL REGISTER:
CONTAINING
RULES AND ORDERS
OF THE
CITY COUNCIL,
AND A LIST OF
THE GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL.
1883.



LOWELL, MASS.:
VOX POPULI PRESS: HUSE, GOODWIN & CO.
1883.

JOINT RULES AND ORDERS OF THE CITY COUNCIL.

1. In the month of January joint standing committees shall be appointed as follows:—

- A COMMITTEE ON ACCOUNTS.
- A COMMITTEE ON CLAIMS.
- A COMMITTEE ON EDUCATION.
- A COMMITTEE ON FINANCE.
- A COMMITTEE ON THE FIRE DEPARTMENT.
- A COMMITTEE ON LANDS AND BUILDINGS.
- A COMMITTEE ON MILITARY AFFAIRS.
- A COMMITTEE ON ORDINANCES AND LEGISLATION.
- A COMMITTEE ON PRINTING.
- A COMMITTEE ON STREETS.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman; of the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates, shall be chairman, and shall call the committee together.

4. The reports of all committees, signed by a majority of the members, shall be made to the board in which the business referred originated.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed Ordinances; the enacting clause of which shall be—"Be it ordained by the City Council of the City of Lowell, as follows."

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to a second reading, but if it has not previously been in the hands of some joint committee it shall first be so referred. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceeding shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board, to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen, and be sent to the Mayor for his approval.

9. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the Clerk of the Common Council, and when found correctly en-

rolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature, if he approved the original.

10. Joint orders shall require but one reading, and when adopted shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

11. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day.

12. Every appropriation of money exceeding fifty dollars, shall be by resolution.

13. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order, shall be founded; and all papers on their passage between the two boards shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board which have been duly acted upon in either board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

14. All enrolled ordinances shall be written in a fair and legible hand, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

15. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

16. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

17. No committee shall enter into any contract with any of its members, or purchase, or authorize the purchase of, any article therefrom.

18. No chairman of any committee shall audit or approve any bill or account against the city, for any supplies or services which shall not have been ordered or authorized by the committee.

19. All reports and other papers submitted to the City Council shall be written in a fair hand, without endorsement,

except in case of the introduction of an order. In such case the member introducing an order shall subscribe his name at the bottom of the back of the order. All other endorsements upon the back of papers shall be made by the clerks, and the clerks of the boards respectively shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

20. No business shall be transacted by the City Council in Convention, except such as shall have been previously agreed on, unless by unanimous consent.

21. After the annual appropriations shall have been passed, no subsequent expenditure shall be authorized for any object, unless provision for the same shall be made by a specific transfer from some of the appropriations contained in the annual resolution, or by expressly creating therefor a city debt; but no such debt shall be created unless the resolution authorizing the same pass by the affirmative votes of two thirds of the whole number of each branch of the City Council, said votes to be taken by yeas and nays, excepting in cases of appropriations for the providing of armories for the use of military companies, for the celebration of holidays, and for other purposes of a public nature, when a vote of two thirds of the members of each branch of the City Council present and voting shall be sufficient, but the amount of such appropriations named in this clause shall not exceed one fiftieth part of one per cent. of the valuation of the city for the same year.

22. In ballotings in joint Convention, blanks shall not be counted.

23. Either board may propose to the other a time to which both will adjourn; and neither shall adjourn without giving notice to the other of its intention.

24. Reports of city officers, after being presented, shall remain in the office of the City Clerk two weeks before being printed.

25. These rules may be suspended for a specific purpose, or amended, whenever twenty-two members of a joint Convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and sixteen members of the Common Council.

RULES AND ORDERS OF THE BOARD OF ALDERMEN.

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows: —

First—At all regular meetings, the journal of the last regular meeting, and all intervening meetings of the board, shall be approved without reading, unless the reading be called for by some member of the board.

Second—Petitions and similar papers.

Third—Appointments, elections, etc.

Fourth—New business, which unless otherwise ordered will take its place at the foot of the Orders of the Day.

Fifth—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council, and such matters as have been introduced as new business. By a vote of six members, any matters in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on the demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall

have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting, which latter motion shall have priority if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January, the following committees shall be appointed : —

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON COMMONS.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON POLICE.

A COMMITTEE ON REPAIRS OF STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

The Committees on Licenses, on Police, and on Sewers shall consist of three members each; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission if his presence is necessary to make a quorum.

10. The clerk shall prepare for the use of the board a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee, the question shall first be upon a standing committee of the Board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two thirds of the members present may so vote, but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All petitions for the appointment or removal of police officers and watchmen, shall, before any action thereon is taken by the Board, be referred to the Committee on Police.

14. All nominations of persons to serve as police officers and watchmen, shall, before action thereon by the Board, be referred to the Committee on Police, who shall report upon such nominations at or before the next regular meeting after such reference.



RULES AND ORDERS OF THE COMMON COUNCIL.

1. The President shall take the chair precisely at the hour appointed for the meeting, call the members to order, and within ten minutes (or sooner if a quorum be present) he shall cause the roll to be called and the names of the absentees recorded. The first business after the roll call shall be the approval of the records of the previous meeting, which shall be approved without reading, unless their reading be called for by some member. In the absence of the President, the oldest member present shall call the Council to order, and preside until a President *pro tempore* be chosen.

2. He shall preserve order and decorum; may speak to points of order in preference to other members, rising from his seat for that purpose; and shall decide questions of order, subject to an appeal to the Council by any member.

3. He shall rise to address the Council, to state facts, but may put questions, or read, sitting.

4. He shall declare all votes; but if a vote be doubted, the President shall, without further debate, require the members voting in the affirmative and negative to rise and stand until they are counted, and he shall declare the result.

5. He may call any member to the chair; but such substitution shall not extend beyond an adjournment; and when out of the chair the President may express his opinion on any subject under debate, and he shall not resume the chair while the same question is pending.

6. All questions shall be propounded in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the Council, unless the mover withdraw it before a decision or amendment.

8. A motion to adjourn shall always be in order; that, and the motion to lay on the table, shall be decided without debate.

9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of the members present; and, until it is decided, shall preclude all amendment and further debate of the main question.

10. The yeas and nays shall be taken on any question upon the request of one third of the members present.

11. When two or more members happen to rise at the same time, the President shall name the member who shall speak first.

12. When any member is about to speak in debate, or deliver any matter to the Council, he shall rise in his place, and respectfully address the presiding officer, confining himself to the question under debate, and avoid personality.

13. No member shall be mentioned in debate by his name, but may be described by the place he sits in, or such other designation as may be intelligible and respectful.

14. No member speaking shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgress the rules of the Council, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately sit down, until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without the leave of the Council.

15. No member shall speak more than twice to the same question, without obtaining leave of the Council.

16. Whilst the President or any member is speaking, none shall stand up or pass unnecessarily before the person speaking.

17. Every motion shall be reduced to writing, if the President or any member require it.

18. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous

question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition.

19. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority, provided he is on motion sustained by not less than five members of the Council, may move a reconsideration, to be acted upon at the next meeting, which latter motion shall have priority if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

20. Every member who shall be in the Council when a question is put, shall give his vote, unless the Council, for special reasons, excuse him.

21. No motion or proposition on a subject different from that under consideration shall be admitted under color of an amendment.

22. All reports may be committed or recommitted, at the pleasure of the Council.

23. The division of a question may be called for when the sense will admit of it.

24. When the reading of a paper is called for and objected to, it shall be determined by a vote of the Council.

25. No standing order of the Council shall be suspended, unless three fourths of the members present consent thereto; nor shall any rule or order be repealed or amended, without one day's notice being given of the motion therefor, nor unless a majority of the whole Council concur therein.

26. All committees, except the members of the Joint Standing Committees on the part of the Council, and such as the Council determine to select by ballot, shall be nominated by the President.

27. The members of the Joint Standing Committees shall be appointed by a committee of six, together with the President of the Common Council, *ex officio*, each of the several Wards to have one representative on said committee. Such representatives to

be chosen by the members of the Council representing their several Wards.

28. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

29. All memorials and other papers addressed to the Council, shall be presented to the President, or by a member in his place, who shall explain the subject thereof, and they shall be taken up in the order in which they were presented, unless the Council shall otherwise direct.

30. Standing committees shall be appointed on the following subjects : —

ON SECOND READING OF BILLS AND ORDINANCES.

ON ENROLLMENT.

ON ELECTIONS AND RETURNS.

31. No committee shall sit during the sitting of the Council without special leave, except the Committee on the Second Reading of Bills and Ordinances, and the Committee on Enrollment.

32. The rules of proceeding in the Council shall be observed in the Committee of the Whole, so far as they are applicable, except the rule limiting the time of speaking.

33. When a committee is nominated by the chair, the person first named shall be chairman. In election of committees by ballot, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman, and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

34. All ordinances and resolutions shall have two several readings before they shall be finally passed by this Council.

35. All ordinances, before being read a second time, shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported on by said committee, shall be again read, after which second reading, the question shall be on passing the same to be enrolled.

36. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

37. The seats of the Common Council shall be numbered, and determined by lot, and no member shall change his seat but by permission of the President.

38. All committees of the Council shall consist of three members, unless a different number be specially ordered. And no report shall be received from any committee, unless agreed to in committee actually assembled; and all reports shall be in writing.

39. It shall be the duty of every committee of the Council, to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

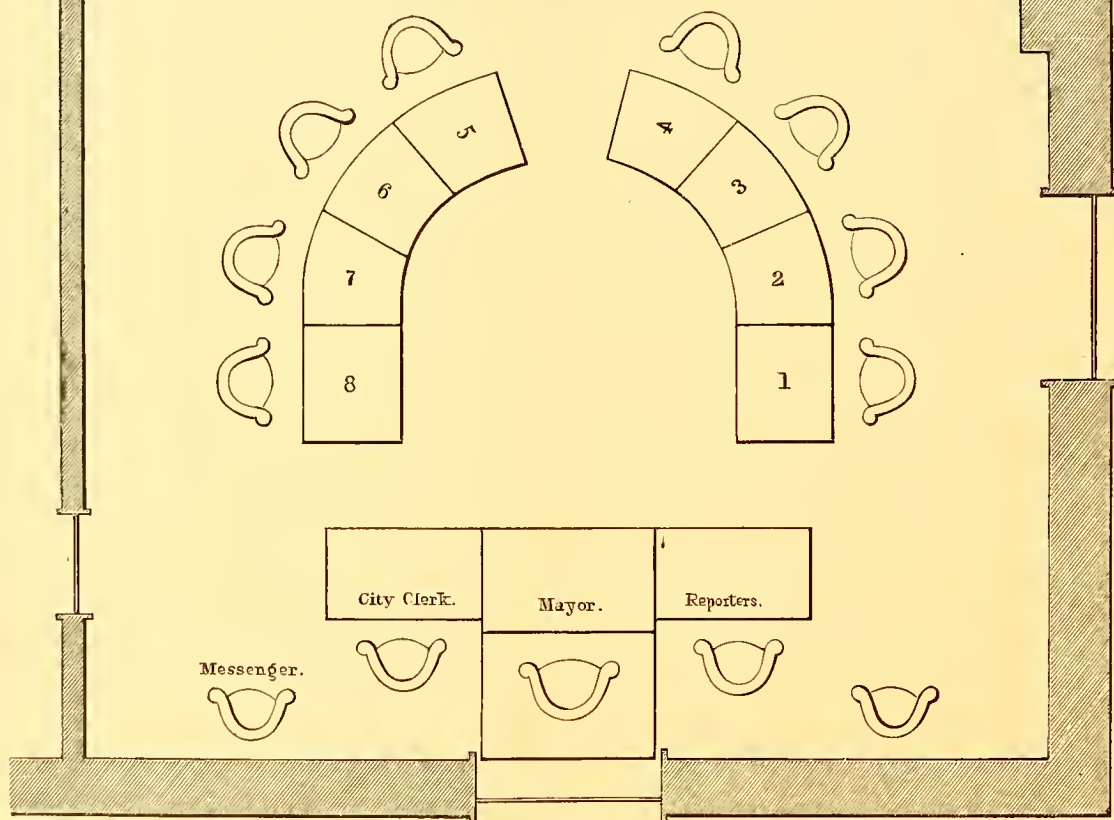
40. The clerk shall keep brief minutes of the votes and proceedings of the Council, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles, or a brief description of their purport.

41. All salary officers shall be chosen by written or printed ballots, and in the election of any officers by ballot, blanks shall be counted.

42. Members of the Council may attend meetings of any of its committees, but shall not vote thereat.

43. The clerk of the Common Council shall keep the record of committees who may require that service; and on the appointment of every Standing Committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of the members of the City Council.

PLAN OF
ALDERMEN'S ROOM
 LOWELL, MASS.



JOHN J. DONOVAN,

Mayor.

- | | |
|----------------------|----------------------|
| 1—ROBERT J. THOMAS. | 5—DAVID WHITAKER. |
| 2—MILES J. FLETCHER. | 6—GEORGE W. FIFIELD. |
| 3—D. MOODY PRESCOTT. | 7—JOHN WELCH. |
| 4—JOHN F. PHILLIPS. | 8—GEORGE B. SMITH. |

DAVID W. O'BRIEN, *City Clerk.*

MICHAEL E. McDONALD, *Marshal.*

GOVERNMENT OF THE CITY OF LOWELL, 1883.

MAYOR.

JOHN J. DONOVAN.

11 Centre Street.

BOARD OF ALDERMEN.

JOHN F. PHILLIPS, *Chairman*..... 43 Chapel Street.
GEORGE B. SMITH225 Westford Street.
ROBERT J. THOMAS135 Adams Street.
DAVID WHITAKERAmerican House.
D. MOODY PRESCOTT117 Moore Street.
GEORGE W. FIFIELDSt. Charles Hotel.
JOHN WELCH 92 Cross Street.
MILES J. FLETCHER.....204 Central Street.

COMMON COUNCIL.

President—EDWARD B. PEIRCE.

Ward One.

DENNIS J. CROWLEY..... 222 Market Street.
JOHN J. HOGAN 31 Adams Street.
JAMES H. CAHILL 22 Jefferson Street.
DANIEL MURPHY..... 49 Suffolk Street.

Ward Two.

SAMUEL LAWRENCE 203 Bridge Street.
 JOSEPH S. BROWN 30 Myrtle Street.
 ALBERT W. MONTY 44 Fifth Street.
 JOHN F. THISSELL 48 Tenth Street.

Ward Three.

JAMES GRADY 41 Livingston Street.
 JOHN J. MEAD 28 Cedar Street.
 PATRICK J. SMITH 11 Walnut Street.
 FRANK J. DONOHUE 14 Keene Street.

Ward Four.

JAMES G. ELLIOTT 20 Appleton Corporation.
 SOLOMON K. DEXTER 74 Wilder Street.
 ALONZO L. RUSSELL 20 Coral Street.
 GEORGE A. BENNETT 39 Marshall Street.

Ward Five.

EDWARD B. PEIRCE 1 Austin Street.
 ARTEMAS B. WOODWORTH Cor. Fletcher and Dutton.
 JOHN P. MAHONEY 13 Butterfield Street.
 GEORGE L. ASHWORTH 25 Rock Street.

Ward Six.

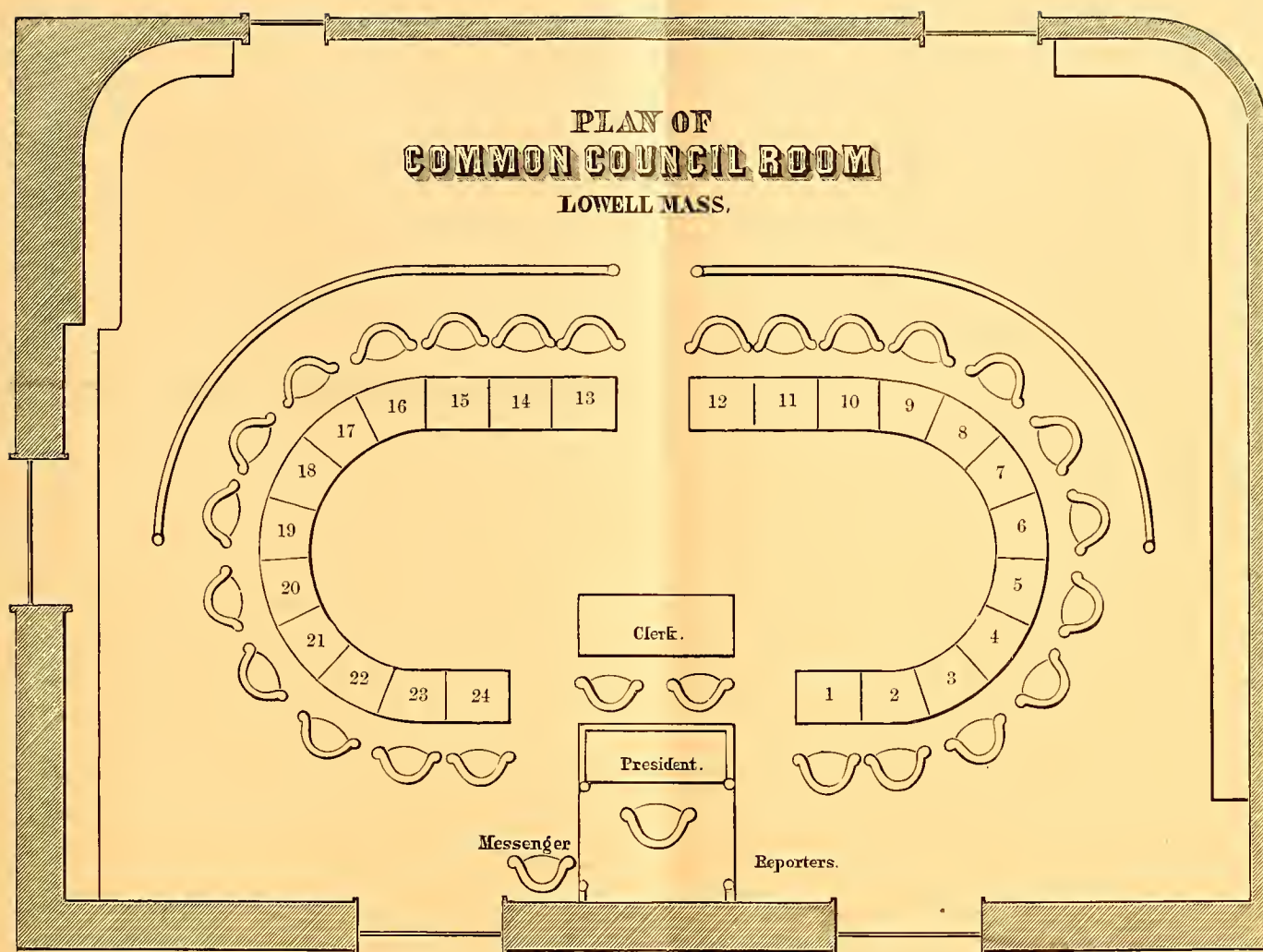
LAWRENCE J. SMITH 27 Oak Street.
 THADDEUS S. COBB Beacon Street.
 J. FRANK PAGE 200 Central Street.
 MICHAEL F. CLARK 12 Pleasant Street.

CITY CLERK.

DAVID W. O'BRIEN Phillips Street.

Chosen in Convention of the City Council, on the first Monday in January. City Charter, Sect. 17.

**PLAN OF
COMMON COUNCIL ROOM
LOWELL MASS.**



EDWARD B. PEIRCE,

President.

- | | | | |
|----------------------|----------------------|-----------------------|------------------------|
| 1—SAMUEL LAWRENCE. | 7—JAMES G. ELLIOTT. | 13— | 19—DENNIS J. CROWLEY. |
| 2—ALBERT W. MONTY. | 8—GEORGE A. BENNETT. | 14—A. B. WOODWORTH. | 20—JOHN J. HOGAN. |
| 3—J. FRANK PAGE. | 9—SOLOMON K. DEXTER. | 15—LAWRENCE J. SMITH. | 21—JAMES H. CAHILL. |
| 4—JOHN F. THISSELL. | 10—FRANK J. DONOHUE. | 16—JAMES GRADY. | 22—THADDEUS S. COBB. |
| 5—JOHN P. MAHONEY. | 11—PATRICK J. SMITH. | 17—JOHN J. MEAD. | 23—MICHAEL F. CLARK. |
| 6—ALONZO L. RUSSELL. | 12—JOSEPH S. BROWN. | 18—DANIEL MURPHY. | 24—GEORGE L. ASHWORTH. |

DAVID CHASE, *Clerk.*

JOHN EWING, *Messenger.*

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ASSISTANT CITY CLERK.

LYSSON GORDON23 Fremont Street.

Nominated by the City Clerk and confirmed by the Board of Aldermen. Ord., Chap. 12, Sect. 2.

CLERK OF COMMON COUNCIL.

DAVID CHASE... ..15 Fourth Street.

Chosen on the first Monday in January. City Charter, Sect. 14.

CITY MESSENGER.

JOHN EWING.....35 Water Street.

Chosen by concurrent vote in January. Ord., Chap. 23, Sect. 4.

MEETINGS OF THE CITY COUNCIL.

The Regular Meetings of the City Council are held at the City Hall, on the Second and Fourth Tuesdays of each month, except August, at 7½ o'clock in the evening, as follows:—

January..... 9th and 23d.	July .....10th and 24th.
February .....13th and 27th.	September .....11th and 25th.
March .....13th and 27th.	October 9th and 23d.
April10th and 24th.	November13th and 27th.
May..... 8th and 22d.	December11th and 25th.
June12th and 26th.	

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COMMITTEES OF THE CITY COUNCIL

JOINT STANDING COMMITTEES.

- ON ACCOUNTS — Aldermen Fletcher and Welch; Councilmen Brown, Clark, and Hogan.
- ON CLAIMS — Aldermen Phillips and Fifield; Councilmen Grady, Hogan, and Page.
- ON EDUCATION — Aldermen Fletcher and Whitaker; Councilmen Thissell, Russell, and Clark.
- ON FINANCE — The Mayor; Alderman Phillips; Councilmen Peirce, L. J. Smith, and Brown.
- ON FIRE DEPARTMENT — Aldermen Smith and Prescott; Councilmen L. J. Smith, Ashworth, and Bennett.
- ON LANDS AND BUILDINGS — Aldermen Fifield and Welch; Councilmen Crowley, Mahoney, and Cahill.
- ON MILITARY AFFAIRS — Aldermen Prescott and Welch; Councilmen Cobb, P. J. Smith, and Hogan.
- ON ORDINANCES AND LEGISLATION — Aldermen Smith and Phillips; Councilmen Grady, Russell, and Page.
- ON PRINTING — Aldermen Phillips and Thomas; Councilmen Ashworth, Donohoe, and Monty.
- ON STREETS — Aldermen Thomas and Whitaker; Councilmen Cobb, Lawrence, Mead, Murphy, and Dexter.

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STANDING COMMITTEES.

OF THE BOARD OF ALDERMEN.

ON BILLS IN SECOND READING — Whitaker and Fletcher.

ON COMMONS — Smith and Fletcher.

ON ENROLLMENT — Fletcher and Whitaker.

ON LICENSES — Phillips, Welch, and Whitaker.

ON LIGHTING — Welch and Prescott.

ON POLICE — Welch, Thomas, and Fifield.

ON REPAIRS OF STREETS — Thomas and Whitaker.

ON SEWERS — Prescott, Smith, and Phillips.

ON WEIGHTS AND MEASURES — Fletcher and Fifield.

ON STATE AID — Smith, Welch, and Prescott.

OF THE COMMON COUNCIL.

ON ELECTIONS AND RETURNS — Woodworth, Cobb, L. J. Smith.

ON BILLS IN SECOND READING — Clark, Mahoney, and Brown.

ON ENROLLMENT — Page, Russell, and Lawrence.

Clerk to Committees on Sewers and Streets, GEORGE E. EVANS.

JOINT SPECIAL COMMITTEE ON AIKEN STREET AND ALL OTHER BRIDGES THAT MAY BE BUILT IN 1883.

Mayor Donovan; President Peirce; Aldermen Smith, Thomas,
and Fletcher; Councilmen Woodworth, P. J. Smith, Elliott,
Lawrence, and Thissell.

CITY OFFICERS, 1883.

CITY TREASURER AND COLLECTOR OF TAXES.

VAN B. SLEEPER.....Office, City Hall.

Chosen by the City Council in convention in January. City Charter, Sect. 17. Deputy Collectors are selected and appointed by the Treasurer and Collector.

AUDITOR OF ACCOUNTS.

DAVID CHASE.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

SUPERINTENDENT OF STREETS.

JOHN C. WOODWARD..Office at Civil Engineer's Room, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

SURVEYORS OF HIGHWAYS.

Mayor JOHN J. DONOVAN; Alderman DAVID WHITAKER; Councilman THADDEUS S. COBB.

Chosen by concurrent vote in January or February. City Charter, Sect. 17. Ord., Chap. 23, Sect. 1.

CIVIL ENGINEER FOR THE CITY.

GEORGE E. EVANS.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

CITY SOLICITOR.

NATHAN D. PRATT.....Office, Barristers' Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

LIBRARIAN OF THE CITY LIBRARY.

FRANK P. HILL.....Office at the Library, Masonic Temple.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. I.

DIRECTORS OF THE CITY LIBRARY.

JOHN J. DONOVAN, Mayor..... } *Ex*
EDWARD B. PEIRCE, President of Common Council.... } *Officiis.*

Ward 1 — LAWRENCE CUMMINGS. Ward 4 — WM. J. COUGHLIN.

“ 2 — GEORGE M. ELLIOTT. “ 5 — EDWARD B. QUINN.

“ 3 — JOSIAH L. SEWARD. “ 6 — JOSEPH R. HAYES.

The last six are chosen by concurrent vote in January or February. Ord., Chap. 6, Sect. 2.

SUPERINTENDENT OF PUBLIC BUILDINGS.

WILLARD D. CHENEYOffice, Middle Street.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

CITY PHYSICIAN.

WYLLIS G. EATON.....Office, Richardson's Block.

Appointed by the Mayor and Aldermen, January, 1882, for three years.

SUPERINTENDENT OF BURIALS.

WYLLIS G. EATON.....Office, Richardson's Block.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. I.

ASSESSORS OF TAXES.

Office, City Hall, Third Floor.

JAMES MARREN.

JOHN E. MAGUIRE.

WILLIAM W. READ.

LEVI B. STEVENS.

FRED N. EDGELL.

MICHAEL H. McCUE.

JAMES MARREN, *Chairman.* MICHAEL H. McCUE, *Secretary.*

Assignment of Wards.

Ward 1 — JAMES MARREN.

Ward 4 — JOHN E. MAGUIRE.

“ 2 — WILLIAM W. READ.

“ 5 — LEVI B. STEVENS.

“ 3 — MICHAEL H. McCUE.

“ 6 — FRED N. EDGELL.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

OVERSEERS OF THE POOR.

Office, City Hall.

JOHN J. DONOVAN, Mayor.....*Ex-officio*.

Term expires January, 1884.

Term expires January, 1885.

JULIUS A. STILES.

HENRY F. KEYES.

WILLIAM H. PARKER.

JOHN NOLAN.

DANIEL J. MURPHY.

PETER DAVEY.

Chosen for two years in January, one-half retiring annually. City Charter, Sect. 29.

JOHN J. DONOVAN, *Chairman*. LEONARD F. JEWELL, *Secretary*.*Sub-Committees.*

ON ACCOUNTS — Messrs. Stiles, Parker, and Murphy.

ON FUEL AND OUT-DOOR RELIEF — The Mayor, Messrs. Murphy and Nolan.

ON AGRICULTURE, NEAT CATTLE, AND SWINE — Messrs. Parker, Stiles, and Keyes.

ON CARE AND REPAIR OF BUILDINGS — Messrs. Parker, Davey, and Nolan.

ON CLOTHING, BEDDING, AND FURNITURE — Messrs. Murphy, Keyes, and Davey.

ON PROVISIONS AND SUPPLIES — The Mayor, Messrs. Nolan and Keyes.

ON DISPENSARY — Messrs. Stiles, Parker, and Nolan.

ON WOOD YARD — Messrs. Keyes, Davey, and Murphy.

Regular Meeting of the Board at the City Almshouse, on the last week-day of each month, at 2½ o'clock, P. M.

INSTITUTIONS AT THE CITY FARM.

These consist of the Almshouse, a Workhouse used for the imprisonment of certain convicts, and "The House for the Employment and Reformation of Juvenile Offenders in the City of Lowell." The farm embraces about one hundred and twenty-five acres, seventy-five of which are in a high state of cultivation.

ALBERT PINDER, *Superintendent*.WILLIAM A. LANG, *Chaplain, and Teacher of Reform School*.

There are also one Male Assistant and one Female Assistant. The Superintendent is appointed by the Overseers of the Poor, annually, at the last meeting in December.

MEMBERS OF THE LOWELL WATER BOARD.

Office, City Hall.

ALBERT A. HAGGETT, *President*.

From the City Council—Alderman GEORGE W. FIFIELD; Councilmen EDWARD B. PEIRCE and JOHN J. HOGAN.

From the Citizens at Large—ALBERT A. HAGGETT, term expires May, 1885; CHAS. C. HUTCHINSON, term expires May, 1884.

Superintendent, HORACE G. HOLDEN.

Clerk, HORACE H. KNAPP.

The members of the Lowell Water Board are chosen by concurrent vote in January, and in March or April. Ord., Chap. 41, Sect. 1. The Superintendent is chosen in March or April by concurrent vote. Ord., Chap. 41, Sect. 1. The Clerk is chosen by the Board. Ord., Chap. 41, Sect. 2.

COMMISSIONERS OF SINKING FUNDS.

ELI W. HOYT, term expires January, 1884; JOHN F. KIMBALL, term expires January, 1885; CHARLES M. WILLIAMS, term expires January, 1886.

ELI W. HOYT, *Chairman*.

VAN B. SLEEPER, *Secretary and Treasurer*.

The Commissioners are elected under the provisions of Chapter 29 of Public Statutes.

POLICE DEPARTMENT.

Ord., Chap. 23, Sect. 3. Chap. 279, Acts of 1867.

The members of this Department are appointed by the Mayor and Aldermen, as Police Officers and Watchmen, with all the powers of Constables, except the power of serving and executing civil process, and hold their offices during the pleasure of the Board of Aldermen.

City Marshal.

MICHAEL E. McDONALD. .Office, west end Market House Building.

Chosen by concurrent vote in January or February. Ord., Chap. 23, Sect. 1.

Deputy Marshals.

FRANK WOOD.Office, west end Market House Building.

CHARLES HOWARD.Captain of the Night Police.

Designated by the City Marshal, and appointed by Mayor and Aldermen. Ord., Chap. 23, Sect. 3.

Sergeants.

WILLIAM B. MOFFATT.

JAMES A. MCQUADE.

Designated by the City Marshal, and confirmed by the Board of Aldermen.

Inspectors of Police.

DANIEL M. HAYES.

JOHN F. McCAFFREY, *Special Duty.*

CHARLES J. MORSE.

FRANK GOODWIN, " "

Warrant Officers.

JACOB G. FAVOR.

HARRISON H. FULLER.

JAMES A. HADLEY.

Police Officers and Watchmen.

THOMAS J. SANBORN,	<i>Day.</i>	CHARLES GREGG,	<i>Night.</i>
JOHN HICKSON,	"	THOMAS INGALLS,	"
GEORGE F. DUNLAVY,	"	WILLIAM B. JONES,	"
CORNELIUS COLLINS,	"	WILLIAM R. KEW,	"
HENRY FARRINGTON,	"	ALBERT E. LIBBY,	"
DAVID H. GOODHUE,	"	DANIEL W. LANE,	"
JAMES E. WEBSTER,	"	CHARLES LAFLAMME,	"
ALONZO J. PAGE,	"	CHESTER P. LEWIS,	"
HENRY C. PIKE,	"	JAMES McLAUGHLIN,	"
ISAAC L. LIBBY,	<i>Keeper.</i>	JOHN O'CONNELL,	"
LEVI BROWN,	"	PETER F. O'DONNELL,	"
THOMAS E. ALLEN,	<i>Night.</i>	CHARLES C. PACKARD,	"
WILLIAM G. BUMPS,	"	THOMAS F. RING,	"
PETER T. CORCORAN,	"	JAMES RILEY,	"
B. EUGENE CHENEY,	"	HERBERT STREETER,	"
GEORGE R. DAVIS,	"	JOHN W. TILTON,	"
JAMES DUNLAVY,	"	HERMON N. TILTON,	"
PETER DONOHUE,	"	LEVI H. WITHAM,	"
JOHN DURROUGH,	"	CYRUS M. BEALS, <i>Supernumerary.</i>	
PATRICK FITZPATRICK,	"	JOSIAH S. BLOOD,	"
WILLIS L. GARDNER,	"	GEORGE B. CRAWFORD,	"
WILLIAM H. GRADY,	"	EDMOND G. DYER,	"
ENOCH N. GRINNELL,	"	ALBERT F. ELLIOTT,	"
DENNIS F. GALLIVAN,	"	JOHN C. FURLONG,	"
ALEX. W. HARPER,	"	JOHN J. FLAHERTY,	"
BENJ. F. HANSON,	"	JOSEPH B. VARNUM,	"
ALFRED M. HOLMAN,	"	JOHN A. WALSH,	"

Special Police Officers and Watchmen not Paid by the City.

Lists of Special Police Officers are kept by the City Clerk and by the City Marshal.

Probation Officer.

MICHAEL E. McDONALD.

Keeper of the Lockup.

MICHAEL E. McDONALD.

Constables.

MICHAEL E. McDONALD.

FRANK GOODWIN.

FRANK WOOD.

HARRISON H. FULLER.

JACOB G. FAVOR.

DANIEL M. HAYES.

CHARLES HOWARD.

JAMES A. HADLEY.

DANIEL G. GREENLEAF.

BENJAMIN PATCH.

JAMES HOPKINS.

WILLIAM W. READ.

JOHN EWING.

FRED N. EDGELL.

JOSEPH H. GUILLET.

JAMES MARREN.

HENRY KILESKEI.

LEVI B. STEVENS.

DAVID FITZGERALD.

JOHN E. MAGUIRE.

CHARLES J. SEARLE.

MICHAEL McCUE.

EUGENE M. HASKELL.

OVIDE E. BARIL.

JAMES W. CUMMISKEY.

JOHN A. GILBRIDE.

JOHN F. McCAFFREY.

GEORGE F. STILES.

JOSEPH S. LAPIERRE.

JOSEPH WELCH.

City Charter, Sect. 7. Ord., Chap. 23, Sect. 2.

POLICE COURT.

NATHAN CROSBY.....*Standing Justice.*

JOHN DAVIS }
FREDERICK T. GREENHALGE } *Special Justices.*

SAMUEL P. HADLEY..... *Clerk.*

HEALTH COMMISSIONER.

MICHAEL E. McDONALD.....Office, City Marshal's Office.

Chosen by concurrent vote commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. I.

BOARD OF HEALTH.

JAMES W. B. SHAW, for 1882-83. WILLIAM M. HOAR, for 1883-84.

WYLLIS G. EATON, City Physician*Ex-officio.*

Appointed by the Mayor and Aldermen in January. Chap. 80 of Public Statutes.

BOARD OF REGISTRARS OF VOTERS.

CHARLES W. SAVAGEuntil April 1, 1885.
 JOHN J. HOGANuntil April 1, 1884.
 DAVID W. O'BRIEN, City Clerk:.....*Ex-officio.*

Chairman, JOHN J. HOGAN.

Chap. 6, Sects. 11, 12, of the Public Statutes.

SURVEYORS OF LUMBER.

JAMES N. MORSE.	GEORGE A. ROPER.
JOSHUA M. HADLEY.	JAMES T. TRASK.
ALFRED P. BATEMAN.	CHARLES O. DAVIS.
ATIS OSGOOD.	HARRY B. PETTINGILL.
JOHN F. BATEMAN.	CHARLES E. HOWE.
LUTHER SMITH.	GEORGE W. CLIFFORD.
SAMUEL NEWHALL.	

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

FENCE VIEWERS.

ALBERT PINDER.	JOSHUA M. HADLEY.
EDWARD FIFIELD.	

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

FIELD DRIVERS.

FRANK GOODWIN.	OTIS F. LUDWIG.
SUMNER T. MITCHELL.	DAVID H. GOODHUE.
LEVI H. WITHAM.	HENRY C. PIKE.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

POUND-KEEPER.

PATRICK VAUGHN.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 23, Sect. 1.

*MEASURER OF WOOD AND BARK.—SUPERINTENDENT OF CITY
SCALES.—INSPECTOR OF BALE OR BUNDLE HAY.*

RICHARD J. NOONAN. Office, at City Scales, rear of Market House
Building.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

MEASURERS OF WOOD AND BARK.

THOMAS J. SAYERS.....
FRANCIS H. CHANDLER At Pawtucket Square.
GEORGE E. CHAMBERLAIN At Middlesex Village.
EDWIN E. AREY..... At Tannery, Ayer's City.
JAMES F. MCKISSOCK At No. 25 First Street.
JOSEPH HOVEY..... In Centralville.
JOHN F. BATEMAN.....
SYDNEY DAVIS.....
WILLIAM H. TAYLOR.....

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

WEIGHIERS OF COAL.

ARTHUR W. CARPENTER.	L. E. SMITH.
AUGUSTUS W. WEEKS.	DANIEL W. HORNE.
FRANK E. BENNETT.	LORENZO WOOD.
DANIEL LIVINGSTON.	JOHN H. HOWARD.
PETER MOLLAHAN.	SYDNEY DAVIS.
CHARLES H. CROWELL.	JOHN W. FALES.
WILLIAM W. MORSE.	WILLIAM H. TAYLOR.
WILLIS J. HILL.	JOHN B. BLESSINGTON.
EDWIN A. WILSON.	EUGENE A. STANLEY.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

SEALER OF WEIGHTS AND MEASURES.

JAMES MURPHY.....Office, 26 Gorham Street.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

INSPECTOR OF MILK.

A. A. HANSCOM.....Office, City Hall.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

*SURVEYORS OF PLASTERING, BRICK OR STONE WORK,
AND PAINTING.*

SAMUEL NEWHALL.	ATIS OSGOOD.
LUTHER SMITH.	— ORA M. SNELL.
GEORGE E. EVANS.	MELVIN B. SMITH.
JOSHUA M. HADLEY.	ORIN F. OSGOOD.
JOHN F. BATEMAN.	

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

MEASURERS OF GRAIN.

JAMES BERRY.	GEORGE W. TILTON.
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Fees 2½ mills per bushel for measuring. Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

WEIGHERS OF HAY AND OTHER ARTICLES.

EDMUND BRICKETT.	At Scales, cor. Western Ave. and Fletcher St.
FRANCIS H. CHANDLER.	.....At Scales, in Pawtucket Square.
ORVILLE W. PEABODY.	.....At Hall & Peabody's, Dutton Street.
CHARLES H. CROWELL.	...At E. G. Parker's yard, Gorham Street.
OLIVER D. WILDER.	.....At Elevator Building, Western Avenue.
WILLIS J. HILL.	.....

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

*MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR
RAILROAD CARS INTO THE CITY.*

SAMUEL NEWHALL.	LUTHER SMITH.
JAMES T. TRASK.	HARRY B. PETTINGILL.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 23, Sect. 2.

INSPECTORS OF PETROLEUM OILS.

EDWARD S. HOSMER.	GEORGE B. ROOT.
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Appointed by the Mayor and Aldermen. Chap. 59 of Public Statutes.

CITY CRIER.

Appointed by the Mayor and Aldermen in January or February. Ord., Chap. 9, Sect. 1.

MEASURERS OF UPPER LEATHER.

WILLARD A. BROWN.

WILLIAM H. WHITE.

EDWIN E. AREY.

Appointed by the Board of Aldermen in April. Ord., Chap. 23, Sect. 2.

FISH WARDEN.

LUKE MCFARLIN.....Office, 40 Arlington Street.

Appointed by the Mayor and Aldermen. Chap. 91 of Public Statutes.

INSPECTORS OF BOILERS.

RICHARD DOBBINS.....Office, Tanner Street.

BARTHOLOMEW SCANNELL.....Office, off Gorham Street.

INSPECTOR OF PROVISIONS.

MICHAEL E. McDONALD.....Office, City Marshal's Office.

Appointed by the Mayor and Aldermen. Chap. 58 of Public Statutes.

JANITOR OF HUNTINGTON AND JACKSON HALLS.

JOHN F. COSGROVE.

Appointed by the Mayor.

FIRE DEPARTMENT, 1883-84.

The Chief and Assistant Engineers are appointed by the Mayor and Aldermen in the month of April, annually, for the term of one year from the first day of May next succeeding. All other members of the Fire Department are nominated by the Board of Engineers, and appointed by the Mayor and Aldermen; and vacancies may be filled and removals made at any time.

City Charter, Sect. 31. Ord., Chap. 14. Chapter 63, Acts of 1869.

CHIEF ENGINEER.

THOMAS J. FARRELL.....Engine House, Middle Street.

Office, Engine House, Middle Street.

ASSISTANT ENGINEERS.

JAMES F. NORTON.....280 Central Street.

EDWARD MELOY.....94 Charles Street.

CHARLES W. MARRIOTT393 Middlesex Street.

———, Clerk of the Board.

The Clerk is chosen by the Engineers.

OPERATOR OF FIRE-ALARM TELEGRAPH.

G. B. WHITNEY.....Engine House, Middle Street.

FRANKLIN HOOK AND LADDER CO., No. 1.

SIXTEEN MEMBERS.

HOUSE ON MIDDLE STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
101	Foreman,	H. B. Downs,	47	Carpenter,	47 Hamilton Corp.
102	Asst. Foreman,	F. E. Fuller,	33	Carpenter,	42 Hamilton Corp.
100	Driver,	W. L. Peabody,	33	Driver,	H. & L. House.
103	Ladderman,	C. W. Dana,	27	Carpenter,	74 L. M. S. Corp.
104	"	N. Bishop,	43	Manufacturer,	120 Lawrence Corp.
105	"	H. C. Daggett,	56	Carpenter,	6 Prescott Corp.
106	"	J. A. Pullen,	53	Machinist,	161 Merrimack Corp.
107	"	H. C. Furnald,	29	Machinist,	H. & L. House.
108	"	— — —	—	— — —	— — —
109	"	H. S. Gardner,	30	Moulder,	25 Worthen St.
110	"	Wm. Marsdin,	28	Painter,	48 Mass. Corp.
111	"	J. C. Jones,	39	Carpenter,	29 Fifth St.
112	"	C. M. Brooks,	31	Carpenter,	44 Merrimack Corp.
113	"	C. H. Stackpole,	26	Moulder,	Brooks' Court.
114	"	Geo. Sargent,	28	Carpenter,	49 Hampshire St.
115	"	F. W. Simons,	30	Bill Poster,	H. & L. House.

GEORGE HOBSON HOOK AND LADDER CO., No. 2.

TEN MEMBERS.

HOUSE ON MIDDLE STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
121	Foreman,	H. W. Burton,	40	Carpenter,	4 Kimball Court.
122	Asst. Foreman,	Wm. Roberts,	51	Expressman,	27 Hildreth St.
120	Driver,	H. J. Foster,	31	Driver,	H. & L. House.
123	Ladderman,	D. Pickman,	58	Machinist,	52 Pleasant St.
124	"	Dan'l Harrington,	32	Coachman,	H. & L. House.
125	"	G. W. Alcott,	28	Carpenter,	H. & L. House.
126	"	James Winslow,	29	Dyer,	H. & L. House.
127	"	W. N. Flagg,	36	Carpenter,	119 Merrimack St.
128	"	E. W. Bartlett,	36	Carpenter,	Fletcher St.
129	"	C. A. Thompson,	38	Carpenter,	H. & L. House.

HOPE STEAM FIRE ENGINE CO., No. 1.

ELEVEN MEMBERS.

HOUSE ON GORHAM STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
10	Foreman,	B. F. Crosby,	38	Stucco Worker,	79 Moore St.
11	Asst. Foreman,	O. J. Gilbert,	32	Provisions,	19 Elm St.
1	Driver,	J. Cowell,	34	Driver,	Engine House.
13	Engineer,	J. J. Locke,	49	Machinist,	7 So. Highland St.
14	Asst. Engineer,	E. C. Kelley,	31	Machinist,	11 Burns St.
12	Hoseman,	E. A. Gerry,	24	Provisions,	8 Favor St.
15	"	C. D. Foley,	27	Carpenter,	31 Newhall St.
16	"	E. W. Proctor,	27	Carpenter,	197 Central St.
17	"	C. F. Hayden,	41	Stonecutter,	Lincoln St.
18	"	G. W. Lovett,	31	Manufacturer,	Engine House.
19	"	G. M. Clary,	31	Manufacturer,	Engine House.

TORRENT STEAM FIRE ENGINE CO., No. 2.

TWELVE MEMBERS.

HOUSE ON BRANCH STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
20	Foreman,	A. C. Stearns,	41	Cabinet Maker,	6 Branch St.
25	Asst. Foreman,	John W. Abbott,	32	Carpenter,	7 Goward Court.
2	Driver,	Henry Boynton,	30	Driver H. Car.,	Engine House.
90	Driver,	Frank B. Akers,	24	Driver S. F. E.,	Engine House.
28	Engineer,	Geo. Maddocks,	36	Machinist,	Engine House.
29	Asst. Engineer,	Chas. S. Hibbert,	36	Machinist,	39 Branch St.
26	Hoseman,	Joseph Hill,	32	Plumber,	229 Middlesex St.
21	"	Jas. Boyington,	27	Teamster,	Engine House.
27	"	S. E. Bartlett,	33	Clerk,	22 Queen St.
23	"	M. J. Burns,	27	Carpenter,	Engine House.
22	"	H. R. Morrison,	23	Machinist,	Engine House.
24	"	F. Boynton,	21	Machinist,	Engine House.

WAMESIT STEAM FIRE ENGINE CO., No. 3.

ELEVEN MEMBERS.

HOUSE ON MIDDLE STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
30	Foreman,	J. H. Stackpole,	40	Manufacturer,	26 Stackpole St.
36	Asst. Foreman,	Frank Hoyt,	33	Cigar Maker,	Engine House.
3	Driver,	E. J. Little,	35	Driver,	Engine House.
33	Engineer,	E. L. Brown,	45	Machinist,	120 Merrimack Corp.
34	Asst. Engineer,	J. G. Merchant,	43	Engineer,	188 Westford St.
32	Hoseman,	J. W. Halstead,	33	Manufacturer,	16 Branch St.
31	"	F. Bowden,	29	Manufacturer,	29 Stackpole St.
35	"	D. W. Hilliard,	31	Carpenter,	Moody St.
37	"	Frank Roark,	32	Lighter,	Middle St.
38	"	A. Kennedy,	24	Painter,	Engine House.
39	"	W. H. Dana, Jr.,	23	Machinist,	1 L. M. S. Corp.

MAZEPPA HOSE CO., No. 4.

NINE MEMBERS.

HOUSE ON FAYETTE STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
40	Foreman,	W. H. Halstead,	37	Wool Sorter,	2 High St.
41	Asst. Foreman,	J. J. Quinlan,	29	Machinist,	22 Bartlett St.
4	Driver,	Wm. King,	30	Driver,	Hose House.
42	Hoseman,	E. Meredith,	44	Painter,	54 Fayette St.
45	"	Chas. Morse,	40	Finisher,	126 High St.
43	"	John E. Sullivan,	26	Bricklayer,	Fayette St.
46	"	J. D. King,	29	Lather,	Hose House.
47	"	J. E. Burns,	21	Clerk,	7 Prescott Corp.
44	"	M. Conner,	30	Plasterer,	36 Pond St.

WELLMAN HOSE CO., No. 5.

NINE MEMBERS.

HOUSE ON FOURTH STREET, CENTRALVILLE.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
50	Foreman,	Geo. W. Patten,	28	Florist,	34 W. Third St.
51	Asst. Foreman,	Caleb Rogers,	48	Manufacturer,	11 Fifth St.
5	Driver,	A. E. Kidder,	27	Driver,	Hose House.
52	Hoseman,	C. F. Hemenway,	31	Carpenter,	44 Fremont St.
53	"	H. Miller,	28	Piper,	35 Second St.
54	"	A. Merrill,	51	Truckman,	29 Fifth St.
55	"	F. Mansur,	32	Manufacturer,	172 Bridge St.
56	"	E. Boyle,	36	Truckman,	49 River St.
57	"	J. Smith,	31	Clerk,	49 River St.

EXCELSIOR HOSE CO., No. 6.

NINE MEMBERS.

HOUSE ON CENTRAL STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
60	Foreman,	Ed. Cunningham,	34	Gas Fitter,	29 Church St.
62	Asst. Foreman,	— — —	—	— — —	— — —
6	Driver,	E. J. O'Connell,	25	Driver,	Engine House.
63	Hoseman,	P. Curtin,	29	Moulder,	11 Bassett St.
61	"	R. O'Connell,	26	Tinsmith,	224 Gorham St.
64	"	J. Blackburn,	25	Plumber,	16 Summer St.
65	"	N. Prevencher,	25	Painter,	53 Appleton St.
66	"	P. Emerson,	24	Carpenter,	47 Hudson St.
67	"	E. F. Crowley,	29	Coppersmith,	28 Cady St.

MECHANICS' HOSE CO., No. 7.

NINE MEMBERS.

HOUSE CORNER FLETCHER AND WEST CLARK STREETS.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
70	Foreman,	D. J. Hurley,	30	Stone Cutter,	Hose House.
71	Asst. Foreman,	E. W. Fletcher,	28	Moulder,	26 Worthen St.
7	Driver,	J. A. Pierce,	33	Driver,	Hose House.
72	Hoseman,	J. H. Joyee,	39	Moulder,	42 Butterfield St.
73	"	J. E. Firth,	27	Blacksmith,	28 Oliver St.
74	"	S. O. Wade, Jr.,	29	Stone Cutter,	Hose House.
77	"	J. A. Fletcher,	25	Moulder,	16 Franklin Court.
78	"	J. F. Williams,	30	Stone Cutter,	356 Middlesex St.
75	"	T. J. McDonald,	30	Clerk,	14 Franklin St.

WILSON HOSE CO., No. 8.

TEN MEMBERS.

HOUSE PAWTUCKETVILLE.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
91	Foreman,	C. E. Lusecomb,	44	Painter,	Second Avenue.
92	Asst. Foreman,	J. L. Stevens,	33	Mason,	1 Poplar St.
93	Clerk,	C. G. Coburn,	33	Clerk,	10 Varnum Avenue.
94	Hoseman,	J. W. Cassidy,	40	Dry Goods,	Mt. Grove St.
95	"	J. P. Fowler,	34	Carpenter,	Fourth Avenue.
96	"	A. F. Cogger,	38	Blacksmith,	Fourth Avenue.
97	"	A. H. Vining,	39	Carpenter,	Mammoth St.
98	"	C. H. Luscomb,	24	Painter,	Second Avenue.
99	"	H. Vining,	36	Carpenter,	Fourth Avenue.
116	"	A. J. Mitchell,	29	Harness Maker,	Riverside St.

PROTECTIVE CO., No. 1.

SEVEN MEMBERS.

HOUSE ON WARREN STREET.

B'ge.	Rank.	Name.	Age.	Occupation.	Residence.
80	Foreman,	J. L. Flagg,	46	Foreman,	Protective House.
83	Asst. Foreman,	W. P. Wiley,	28	Bleacher,	96 Merrimack St.
8	Driver,	J. J. Harrington,	31	Driver,	Protective House.
81		A. C. Walton,	43	Manufacturer,	48 Mass. Corp.
82		H. Coulam,	28	Manufacturer,	Protective House.
85		L. S. Kimball,	31	Roll Coverer,	11 John St.
84		J. Starr,	25	Machinist,	Protective House.

SCHOOL COMMITTEE, 1883.

JOHN J. DONOVAN, Chairman.

SOLON W. STEVENS, Vice Chairman.

CHARLES MORRILL, Superintendent and Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

JOHN J. DONOVAN, Mayor.....	}	<i>Ex</i> <i>Officiis.</i>
EDWARD B. PEIRCE, President Common Council.....		
Ward 1—JOHN A. SMITH.....	Term expires	1883
STEPHEN J. JOHNSON.....	“ “	1884
Ward 2—GEORGE E. STANLEY.....	“ “	1883
GREENLEAF C. BROCK.....	“ “	1884
Ward 3—MICHAEL SEXTON.....	“ “	1883
JAMES J. SULLIVAN.....	“ “	1884
Ward 4—FRED WOODIES.....	“ “	1883
SOLON W. STEVENS.....	“ “	1884
Ward 5—GEORGE W. BATCHELDER.....	“ “	1883
HERMON J. SMITH	“ “	1884
Ward 6—JOHN J. PICKMAN	“ “	1883
GEORGE E. PINKHAM.....	“ “	1884

STANDING COMMITTEES.

On Accounts.—The Mayor; Messrs. Peirce, J. A. Smith, Woodies, and Johnson.

On School-houses.—Messrs. Batchelder, Pinkham, Johnson, H. J. Smith, and Sullivan.

On Teachers.—Messrs. Woodies, Stevens, Pickman, Sexton, and J. A. Smith.

On Reports and Printing.—Messrs. Pickman, Stevens, Pinkham, Sullivan, and Brock.

On Books and Supplies.—Messrs. Stevens, J. A. Smith, Pickman, Sexton, Woodies, and Stanley.

On Salaries.—The Mayor; Messrs. Stanley, H. J. Smith, Brock, and Sullivan.

On Penmanship and Drawing.—Messrs. Sexton, Batchelder, Pickman, Johnson, and H. J. Smith.

On Music.—Messrs. Stevens, Batchelder, Woodies, H. J. Smith, and Brock.

On Evening Schools.—Messrs. J. A. Smith, Stanley, Sexton, Johnson, and Pinkham.

On Rules and Regulations.—Messrs. Stanley, Batchelder, Pinkham, Sullivan, and Brock.

On Parochial Schools.—The Mayor; Messrs. Stevens, H. J. Smith, Sullivan, and J. A. Smith.

ASSIGNMENT OF SCHOOLS.

The Mayor.—High and Reform Schools.

President Peirce.—Reform School.

Mr. J. A. Smith.—High, Green, Primaries 10, 36, 38, 63, 74.

Dr Johnson.—Mann, Primaries 8, 12, 22, 23, 29, 41, 44, 69.

Mr. Stanley.—High, Varnum, Primaries 1, 3, 4, 6, Mixed No. 1.

Mr. Brock.—Primaries 11, 19, 26, 39, 43, 47, 48, 49, 55, 60, 61, 75.

Mr. Sexton.—Reform, Primaries 7, 13, 20, 21, 57, 59, 66, 68, 71, 72.

Dr. Sullivan.—High, Colburn, Primaries 18, 27, 33, 42, 53, 56, 64.

Mr. Stevens.—High, Edson, Primaries 24, 28, 77.

Mr. Woodies.—Highland, Primaries 17, 34, 50, 62, 67, 69, 76.

Mr. Batchelder.—High, Bartlett, Primaries 58, 81, Mixed No. 2.

Dr. H. J. Smith. — Reform, Primaries 2, 4, 31, 32, 40, 45, 54, 65, 70, 73, 78, 80.

Mr. Pickman. — High, Moody, Primaries 35, 52.

Dr. Pinkham. — High, Primaries 5, 6, 9, 14, 15, 16, 25, 30, 51.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE, 1883.

Last Monday Evening of each month, at 7.30 o'clock.

January 29, February 26, March 26, April 30, May 28, June 25, July 30, August 27, September 24, October 29, November 26, December 31.

CHARLES MORRILL, Superintendent of Public Schools.

Office in the City Hall.

OFFICE HOURS — One hour after the forenoon session; and on Wednesday and Saturday afternoons, from 2 to 3 o'clock.

TRUANT COMMISSIONERS.

Office in the City Hall.

BICKFORD LANG.

WM. H. BERMINGHAM.

WARD OFFICERS, 1883.

Chosen annually at the Municipal Election held on the second Tuesday in December.

WARD ONE.

Warden... James F. Sullivan.
Clerk..... Law. J. McDonough.
Inspectors, James H. Morrison,
Thomas F. Duffy,
James D. Sullivan.

WARD TWO.

Warden... Frank B. Peabody.
Clerk..... George W. Brothers.
Inspectors, Oren C. Carlton,
Arthur H. Cluer,
George W. Patten.

WARD THREE.

Warden... Charles J. Heeren.
Clerk..... Patrick H. Lahiff.
Inspectors, James P. Donohue,
Charles A. Pierce,
Philip J. Breen.

WARD FOUR.

Warden... Joel Knapp.
Clerk..... George A. Roper.
Inspectors, William L. Davis,
Noel Lamoureux,
Charles E. Kimball.

WARD FIVE.

Warden... Frederick Holton.
Clerk..... George E. Worthen.
Inspectors, Morton N. Peabody,
Edw. L. Williams,
James S. Hanson.

WARD SIX.

Warden... Nath'l C. Sanborn.
Clerk..... Henry Hoole.
Inspectors, Arthur C. Folsom,
Edward E. Ripley,
Wm. B. Goodwin.

INSPECTORS OF ELECTIONS.

Chosen by the Mayor and Aldermen.

Terms expire November 1st in the year following their names.

WARD ONE.

Timothy H. Brennan, 1883.
William D. Brown, 1884.
Peter F. Kelly, 1885.

WARD TWO.

Charles A. Parker, 1883.
James F. Puffer, Jr., 1884.
Terrence F. Cassidy, 1885.

WARD THREE.

Benjamin F. Crosby, 1883.
William S. Baker, 1884.
James Cassidy, 1885.

WARD FOUR.

William H. Blaney, 1883.
Holland Streeter, 1884.
D. J. Fry, 1885.

WARD FIVE.

John H. Lynch, 1883.
Edward B. Peirce, 1884.
Frank Coburn, 1885.

WARD SIX.

Rinaldo H. Tyler, 1883.
John Doyle, 1884.
G. W. S. Hurd, 1885.

POPULATION OF LOWELL.

Year.	Population.	Year.	Population.	Year.	Population.	Year.	Population.
1828	3,532	1837	18,010	1855	37,554	1875	49,688
1830	6,477	1840	20,981	1860	36,827	1880	59,485
1832	10,254	1844	25,163	1865	30,990	....	.....
1833	12,963	1846	29,127	1866	36,878	....	.....
1836	17,633	1850	33,383	1870	40,928	....	.....

POPULATION, LEGAL VOTERS, ETC., BY WARDS.

WARDS.	Popula- tion, 1880.	Legal Voters, 1875.	Registered Voters, Dec. 1882.			Vote for Mayor, 1882.	
			Males.	Females.	Total.	Donovan.	Jewett.
1.....	11,716	1,617	1,634	6	1,640	925	418
2.....	8,992	1,528	1,579	23	1,602	666	673
3.....	10,093	1,484	1,758	11	1,769	1,063	473
4.....	8,863	1,554	1,613	10	1,623	359	979
5.....	10,905	1,377	1,533	31	1,564	570	669
6.....	8,916	1,501	1,503	41	1,544	674	604
Total..	59,485	9,061	9,620	122	9,742	4,257	3,816

CATALOGUE
OF THE
GOVERNMENT OF THE CITY OF LOWELL,
IN
CHRONOLOGICAL ORDER OF SERVICE,

From its Institution, 1836, to 1882.

1836.

Mayor:

ELISHA BARTLETT.

Aldermen:

William Austin, resigned Oct. 10,
Joseph Tapley, elected November,
Seth Ames,
Aaron Mansur,

Benjamin Walker,
Oliver M. Whipple,
Alexander Wright.

SAMUEL A. COBURN, *City Clerk*.

Common Council:

John Clark, *President*,
Henry J. Baxter,
Jonathan Bowers,
George Brownell,
James Cook,
David Dana,
Erastus Douglass,
Josiah B. French,
Cyril French,
Samuel Garland,
Horatio W. Hastings,
Horace Howard,

Stephen Mansur,
John Mixer,
Thomas Nesmith,
David Nourse,
Thomas Ordway,
James Russell,
John A. Savels,
Sidney Spalding,
Weld Spalding,
Jonathan Tyler,
Tappan Wentworth,
William Wyman.

GEORGE WOODWARD, *Clerk*, died. ALBERT LOCKE, elected.

1837.

Mayor:

ELISHA BARTLETT, †'36.

Aldermen:

Seth Ames, *'36,
John Aiken,
Seth Chellis,

Joseph G. Kittredge,
Joshua Swan,
Alexander Wright, *'36.

SAMUEL A. COBURN, *City Clerk*.

Common Council:

WARD 1.

Joshua Abbott,
James K. Fellows,
Jesse Phelps,
Walter Wright.

WARD 2.

William Fiske,
Thomas Nesmith, '36.
Josiah Osgood,
Joseph Tyler.

WARD 3.

Joseph M. Dodge,
Elisha Huntington, *President*,
William North,
Joseph Tapley,

WARD 4.

William Baker,
Elijah M. Read,
Charles H. Wilder,
William W. Wyman.

WARD 5.

George Brownell, '36,
Osgood Dane,
James Russell, '36.
Tappan Wentworth, '36.

WARD 6.

Andrew Bird,
Benjamin H. Gage,
Jona. T. P. Hunt,
Abram Tilton.

ALBERT LOCKE, *Clerk*.

The figures without other marks indicate membership of the Common Council those years.
† Mayor that year. * Alderman that year. † President of Common Council that year.

1838.

Mayor:

LUTHER LAWRENCE.

Aldermen:

Benjamin F. French,
Charles L. Tilden,
Oliver M. Whipple, * '36,

George H. Carleton,
George Brownell, '36, '37,
Seth Chellis, * '37.

THOMAS ORDWAY, *City Clerk*.

Common Council:

WARD 1.

Jesse Phelps, '37,
Walter Wright, '37,
Eliphalet Brown,
Perez Fuller.

WARD 2.

William Fiske, '37.
Aaron H. Sherman,
William Upham,
Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson,
Elisha Huntington, ‡ '37, *President*,
Horace Howard, '36,
John Mixer, '36.

WARD 4.

David Dana, '36,
Perley Hale,
Benjamin Walker, * '36,
William Baker, '37.

WARD 5.

Garret J. Bradt,
Benjamin Wilde,
Erastus Douglass, * '36,
Rufus Paul.

WARD 6.

Eli Cooper,
Thomas L. Randlett,
James L. Foot,
Calvin Goodspeed.

ALBERT LOCKE, *Clerk*.

1839.

Mayor:

LUTHER LAWRENCE. — [Died in April.]

ELISHA HUNTINGTON, ‡ '37, ‡ '38.

Aldermen:

Benjamin F. French, * '38,
John O. Green,
Charles L. Tilden, * '38,

George H. Carleton, * '38,
John Clark, ‡ '36,
Oliver M. Whipple, * '36, * '38.

THOMAS ORDWAY, *City Clerk*.

Common Council:

WARD 1.

Walter Wright, '37, '38,
Harlin Pillsbury,
Eliphalet Brown, '38,
Forrest Eaton.

WARD 2.

Jonathan Tyler, '36,
John Nesmith,
Henry J. Baxter, '36, '38,
Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, *President*,
Jacob Robbins,
John G. Locke.

WARD 4.

Benjamin Walker, * '36, '38,
Samuel Horn,
Stephen Carleton,
Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37,
Lewis McIntire, died Feb., '40,
Benjamin Wilde, '38,
Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38,
Joseph S. Holt,
John L. Fitts,
Daniel Knapp.

ALBERT LOCKE, *Clerk*.

1840.

Mayor:

ELISHA HUNTINGTON, †'37, †'38, †'39.

Aldermen:

Jonathan Tyler, '36, '39,
John R. Adams,
Joseph Bedlow,Harlin Pillsbury, '39,
Seth Ames, *'36, *'37,
Stephen Mansur, '36, '39.THOMAS ORDWAY, *City Clerk*.

Common Council:

WARD 1.

Forrest Eaton, '39,
Sylvanus Adams,
Henry Patch,
R. M. Hutchinson.

WARD 2.

Jefferson Bancroft, '39,
John Nesmith, '39,
Joseph G. Kittredge, *'37,
Josiah Osgood, '37.

WARD 3.

Pelham W. Warren, *President*,
Abner W. Buttrick,
Asa Hall,
Samuel Burbank.

WARD 4.

Ferdinand Rodliff,
Ethan Burnap,
Edward F. Watson,
B. Walker, *'36, '38, '39, died Sept.

WARD 5.

Tappan Wentworth, '36, '37, '39,
Samuel W. Brown,
John J. Crane,
George Dane.

WARD 6.

Daniel Knapp, '39,
George L. Fitts, '39,
Joseph Battles,
Joshua Converse.ALBERT LOCKE, *Clerk*, died October. JOHN G. LOCKE, elected October.

1841.

Mayor:

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40.

Aldermen:

Seth Chellis, *'37, '38,
Jefferson Bancroft, '39, '40,
Cyril French, '36,George H. Carleton, *'38, *'39,
John R. Adams, *'40.
John Aiken, *'37.THOMAS ORDWAY, *City Clerk*.

Common Council:

WARD 1.

Henry Patch, '40,
George Bragdon,
John W. Holland,
Arnold Welch.

WARD 2.

William Fiske, '37, '38,
Erasmus D. Leavitt,
Jonathan White,
Nathaniel Wilson.

WARD 3.

Samuel Burbank, '40,
Nathaniel Critchett,
Royal Southwick,
Edward Winslow.

WARD 4.

Ethan Burnap, '40.
William Livingston,
John Morrison,
Edward F. Watson, '40.

WARD 5.

Tappan Wentworth, '36, '37, '39,
'40, *President*,
Samuel W. Brown, '40,
John J. Crane, '40,
Phineas Whiting.

WARD 6.

Francis H. Bowers,
Isaac H. Cooper,
William Potter,
John Smith.JOHN G. LOCKE, *Clerk*.

1842.

Mayor:

NATHANIEL WRIGHT.

Aldermen:

Nathaniel Thurston,
 Jefferson Bancroft, '39, '40, '41,
 Cyril French, '36, *'41,

William Livingston, '41,
 Ithamar A. Beard,
 John W. Graves.

THOMAS ORDWAY, *City Clerk*.**Common Council:****WARD 1.**

Jeremiah P. Jewett,
 John Hadley,
 James Townsend,
 Edward J. Payne.

WARD 2.

John Nesmith, '39, '40,
 Erasmus D. Leavitt, '41,
 Joseph W. Mansur, *President*,
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41,
 Ira Spalding,
 John Mead,
 Asa W. Willoughby.

WARD 4.

John Morrison, '41,
 William Carlton,
 Oliver March,
 Josiah B. French, '36.

WARD 5.

James Patterson,
 Isaac Appleton,
 Josiah Seavey,
 Roswell Douglass.

WARD 6.

James Russell, '36, '37,
 Jonathan Kendall,
 Varnum A. Shed,
 Isaac N. Fitts.

JOHN G. LOCKE, *Clerk*.

1843.

Mayor:

NATHANIEL WRIGHT, †'42.

Aldermen:

Harlin Pillsbury, '39, *'40, res'd June,
 Henry C. Johnson,
 Cyril French, '36, *'41, *'42,

S. Spalding, '36, resigned in June.
 Joseph Griffin,
 Charles L. Tilden, *'38, '39.

THOMAS ORDWAY, *City Clerk*.**Common Council:****WARD 1.**

Daniel Bixby,
 Edward J. Payne, '42,
 Hugh Cummiskey,
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39,
 John P. Simonds,
 Pliny Lawton,
 Ben Osgood.

WARD 3.

John Mead, '42,
 Willard Brown,
 Ira Spalding, '42,
 Benjamin J. Gerrish.

WARD 4.

Otis Allen,
 Alfred Gilman,
 Oliver March, '42, *President*,
 William Carlton, '42.

WARD 5.

James Patterson, '42,
 David Bradt,
 John L. Tripp,
 Benjamin F. Holden,

WARD 6.

John B. McAlvin,
 Cyrus Battles,
 Sewall G. Mack,
 Charles F. Mitchell.

JOHN G. LOCKE, *Clerk*.

1844.

Mayor:

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41.

Aldermen:

Henry Smith,
Selwin Bancroft,
O. M. Whipple, *'36, *'38, *'39,

Edward F. Watson, '40, '41,
Joseph Griffin, *'43,
John Wright.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Forrest Eaton, '39, '40,
Gilman N. Nichols,
Hugh Cummiskey, '43,
David Healey.

WARD 2.

John P. Simonds, '43,
Ben Osgood, '43,
Amos Merriam,
John Clark, †'36, *'39, *President.*

WARD 3.

Charles B. Coburn,
George Choate,
Isaac Scripture,
William C. Gray.

WARD 4.

Asa Wetherbee,
Abner W. Buttrick, '40,
Horatio G. F. Corliss,
Charles H. Wilder, '37.

WARD 5.

John L. Tripp, '43,
David Bradt, '43,
John Wright,
Nathaniel Wright, Jr.

WARD 6.

Sewall G. Mack, '43,
James Russell, '36, '37, '42,
Jonathan Kendall, '42,
Gilman Gale.

JOHN G. LOCKE, *Clerk.*

1845.

Mayor:

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44.

Aldermen:

Henry Smith, *'44,
Selwin Bancroft, *'44,
O. M. Whipple, *'36, *'38, *'39, *'44,

Edward F. Watson, '40, '41, *'44,
John C. Dalton,
Daniel Knapp, '39.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Gilman N. Nichols, '39,
Danforth P. Brigham,
Jonathan Adams,
Willard C. Welch.

WARD 2.

John P. Simonds, '43, '44,
Daniel Balch,
William Brown,
Daniel S. Richardson, *President.*

WARD 3.

Isaac Scripture, '44,
William C. Gray, '44,
George Choate, '44,
Hapgood Wright.

WARD 4.

Abner W. Buttrick, '40, '44,
Asa Wetherbee, '44,
Charles H. Wilder, '37, '44,
Josiah Sawtell.

WARD 5.

Nathaniel Wright, Jr., '44,
Amos Hyde,
Edward Sherman,
James Fenno.

WARD 6.

Gilman Gale, '44,
John B. McAlvin, '43,
Samuel Fay, Jr.,
Lorenzo P. Wright.

JOHN G. LOCKE, *Clerk.*

1846.**Mayor:****JEFFERSON BANCROFT, '39, '40, *'41, *'42.****Aldermen:**

Henry Smith, *'44, *'45,
 Selwin Bancroft, '44, *'45,
 William C. Gray, '44, '45,
 Joseph Butterfield,

John C. Dalton, '45,
 D. Knapp, '39, *'45, resigned July,
 Isaac Cooper, '41, elected August.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Gilman N. Nichols, '39, '45,
 Danforth P. Brigham, '45,
 Willard C. Welch, '45,
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45,
 William Brown, '45,
 Daniel S. Richardson, †'45, *President*,
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45,
 Isaac Farrington,
 Joel Powers,
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45,
 Solon Stevens,
 David J. Moody,
 William Fletcher.

WARD 5.

Amos Hyde, '45,
 Horatio G. F. Corliss, '44,
 Jonathan Bowers, '36,
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45,
 John L. Fitts, '39, '40,
 Lewis Packard,
 Columbus J. Hubbard.

JOHN G. LOCKE, *Clerk.***1847.****Mayor:****JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46.****Aldermen:**

George Bragdon,
 Joseph Butterfield, *'46,
 Linus Child,
 James Fenno, '45,

Elisha Huntington, †'37, †'38,
 †'39, †'40, †'41, †'44, †'45,
 Sewall G. Mack, '43, '44,
 Stephen Mansur, '36, '39, *'40,
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

William Conihe,
 James C. Crombie,
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41,
 Hannibal Powers,
 William Newman,
 Otis L. Allen.

WARD 3.

Joel Powers, '46,
 Franklin Mead, '46,
 Isaac Farrington, '46,
 Samuel G. Davis.

WARD 4.

Joel Adams, *President*,
 Horatio Fletcher,
 Solon Stevens, '46,
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler,
 Edward C. Johnson,
 Elihu Gates,
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth,
 Isaac N. Parker,
 John R. Southwick,
 Isaiah Morse.

JOHN G. LOCKE, *Clerk.*

1848.**Mayor:****JEFFERSON BANCROFT**, '39, '40, *'41, *'42, †'46, †'47.**Aldermen:**David Dana, '36, '38,
Erastus Douglass, '36, '38,
Jacob Graves, resigned in June,
William Newman, '47,Gilman N. Nichols, '39, '45, '46,
Daniel S. Richardson, †'45, †'46,
Josiah Sawtell, '45, '46, *'47,
O. M. Whipple, *'36, *'38, *'39, *'45.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**William Conihe, '47,
James C. Crombie, '47,
Jesse Huse, '47,
Gerry Wilson.**WARD 2.**Otis L. Allen, '47,
William H. Flagg,
John Nesmith, '39, '40, '42,
Hannibal Powers, '47.**WARD 3.**Alfred Gilman, '43,
Thomas Hopkinson, '38, '39, *President*,
Ransom Reed,
Nathaniel Critchett, '41, '42.**WARD 4.**John Avery,
Otis Allen, '43,
Abiel Rolfe,
Horace Howard, '36, '38.**WARD 5.**Ignatius Tyler, '47,
Elihu Gates, '47,
Edward C. Johnson, '47,
Charles M. Short, '46, '47.**WARD 6.**Thomas Wentworth, '47,
Isaac N. Parker, '47,
Jeremiah M. Currier,
Horace Parmenter.JOHN G. LOCKE, *Clerk.***1849.****Mayor:****JOSIAH B. FRENCH**, '36, '42.**Aldermen:**James B. Francis,
Cyril French, '36, *'41, *'42, *'43,
James H. B. Ayer,
Daniel D. Crombie,Daniel Carter,
George Brownell, '36, '37, *'38,
Artemas L. Brooks,
Joseph Bedlow, *'40.THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**Jesse Huse, '47, '48, resigned Feb.,
William A. Richardson, elected Mar.,
Gerry Wilson, '48,
John W. Smith,
Alfred S. Saunders.**WARD 2.**William H. Flagg, '48,
Ivers Taylor,
Isaac S. Morse, resigned,
Ambrose Lawrence.**WARD 3.**Alfred Gilman, '43, '48,
Elisha Davis,
James Dinsmoor,
Andrew C. Wheelock.**WARD 4.**Nathaniel B. Favor,
Caleb Crosby,
Ezekiel Wright,
Waldo A. Fisher.**WARD 5.**Maynard Bragg,
Joshua Decatur,
Abram T. Melvin,
W. W. Morse.**WARD 6.**William Lamson, Jr.,
Jeremiah M. Currier, '48,
George S. Wright,
John Aiken, *'37, *'41, *President.*GEORGE A. BUTTERFIELD, *Clerk.*

1850.**Mayor :****JOSIAH B. FRENCH, '36, '42, †'49.****Aldermen :**

James H. B. Ayer, *'49,
 Joseph Bedlow, *'40, *'49,
 Daniel D. Crombie, *'49,
 James B. Francis, *'49,

Philip Hardy,
 John Mixer, '36, '38,
 Josiah G. Peabody,
 James Townsend, '42.

THOMAS ORDWAY, City Clerk.**Common Council :****WARD 1.**

John W. Smith, '49,
 Daniel R. Kimball,
 James Watson,
 Jonathan Smothers.

WARD 2.

Ivers Taylor, '49, *President*,
 George Gardner,
 Samuel Lawrence, 2d,
 Samuel J. Varney.

WARD 3.

Jonathan Page,
 John Tripp,
 Fordyce Coburn,
 Joshua Merrill.

GEO. A. BUTTERFIELD, Clerk, res'd May.**WARD 4.**

Abner W. Buttrick, '40, '44, '45,
 Caleb Crosby, '49,
 Benjamin Goddard,
 Nathaniel B. Favor, '49.

WARD 5.

George P. Elliot,
 William Fiske, '37, '38, '41,
 George W. Worthen,
 Maynard Bragg, '49.

WARD 6.

Albert Mallard,
 Stephen P. Sargent,
 George S. Wright, '49,
 Wm. Lamson, Jr., '49, res'd May.
WM. LAMSON, JR., elected May.

1851.**Mayor :****JAMES H. B. AYER, *'49, *'50.****Aldermen :**

William Fiske, '37, '38, '41, '50,
 Ambrose Lawrence, '49,
 James Townsend, '42, *'50,
 Philip Hardy, *'50,

William North, '37,
 Abiel Rolfe, '48,
 Lucius A. Cutler,
 Joshua Converse, '40.

THOMAS ORDWAY, City Clerk.**Common Council :****WARD 1.**

James Watson, '50,
 Jonathan Smothers, '50,
 Charles B. Coburn, '44,
 Stephen Moar.

WARD 2.

Linus Child, *'47,
 George Gardner, '50, *President*,
 Samuel J. Varney, '50,
 Zachariah B. Caverly.

WARD 3.

Fordyce Coburn, '50,
 William Twichell,
 Darius C. Brown,
 Benjamin C. Sargeant.

WARD 4.

Benjamin Goddard, '50,
 Richard Dennis,
 Holland Streeter,
 Solomon D. Emerson.

WARD 5.

George P. Elliot, '50,
 Edward Fifield,
 John N. Ford,
 Theodore H. Sweetser.

WARD 6.

George W. Worthen, '50,
 George W. Jones, died Sept.,
 Stephen P. Sargent, '50,
 Albert Mallard, '50.

WILLIAM LAMSON, JR., Clerk.

1852.

Mayor:

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47.

Aldermen:

Joseph Bedlow, *'40, *'49, *'50,
 Joseph M. Bullens,
 Samuel Burbank, '40, '41,
 Joseph B. V. Coburn,

Wm. Fiske, '37, '38, '41, '50, *'51,
 William North, '37, *'51,
 Alpha Stevens,
 Samuel J. Varney, '50, '51.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Rufus Rogers,
 John C. Smith,
 Jeremiah Clark,
 Paul Hill.

WARD 2.

Paul Perkins,
 Milton Bonney,
 William Hovey,
 Zachariah B. Caverly, '51.

WARD 3.

Darius C. Brown, '51,
 William Twichell, '51,
 Benjamin C. Sargeant, '51, *President*,
 Michael B. Caswell.

WARD 4.

Holland Streeter, '51,
 Elbridge Livingston,
 Abram French,
 Willard Minot.

WARD 5.

Edward Fifield, '51,
 Phineas Whiting, '41,
 George W. Patterson,
 Jonathan Kendall, '42, '44.

WARD 6.

Leonard W. Jaquith,
 Seth Pooler,
 Caleb G. Weaver,
 William C. Parker.

WILLIAM LAMSON, JR., *Clerk.*

1853.

Mayor:

SEWALL G. MACK, '43, '44, *'47.

Aldermen:

Elisha Huntington, †'37, †'38, †'39,
 †'40, †'41, †'44, †'45, *'47, †'52,
 Samuel K. Hutchinson,
 Stephen Mansur, '36, '39, *'40, *'47,
 Joseph B. V. Coburn, *'52,

Ira Spalding, '42, '43,
 Joseph M. Bullens, *'52,
 Alpha Stevens, *'52,
 Joseph White.

THOMAS ORDWAY, *City Clerk.***Common Council:****WARD 1.**

Rufus Rogers, '52,
 John C. Smith, '52,
 Marcus A. Thomas,
 James Cook, '36.

WARD 2.

Paul Perkins, '52,
 Milton Bonney, '52,
 George G. Bumpus,
 George W. Stanley.

WARD 3.

Michael B. Caswell, '52,
 Calvin Philbrick,
 Leonard Brown,
 Henry H. Wilder.

WARD 4.

Abram French, '52,
 Henry C. Howe,
 Joseph S. Grush,
 Samuel K. Pickering.

WARD 5.

George W. Patterson, '52,
 Wm. A. Richardson, '49, *Presid't*,
 Patrick Conlan,
 Jonathan Bowers.

WARD 6.

Caleb G. Weaver, '52,
 William C. Parker, '52,
 George F. Woods,
 C. F. Blanchard.

WILLIAM LAMSON, JR., *Clerk.*

1854.**Mayor:**

SEWALL G. MACK, '43, '44, *'47, †'53.

Aldermen:

Elisha Huntington, †'37, †'38, †'39, †'40,
 †'41, †'44, †'45, *'47, †'52, *'53.
 J. B. V. Coburn, *'52, *'53, res'd Jan.,
 Samuel K. Hutchinson, *'53,
 Ira Spalding, '42, '43, *'53,

Joseph White, *'53,
 Horatio Fletcher, '47,
 C. F. Blanchard, '53,
 Charles Sperry.

WILLIAM LAMSON, JR., *City Clerk.***Common Council:****WARD 1.**

John C. Smith, '52, '53,
 Paul Hill, '52,
 Marcus A. Thomas, '53,
 Thomas Lennon.

WARD 2.

George W. Stanley, '53,
 William H. Gage,
 Amos A. Taylor,
 William H. Bradley.

WARD 3.

Calvin Philbrick, '53,
 Leonard Brown, '53, declined,
 Darius C. Brown, '51, '52, elected,
 Henry H. Wilder, '53,
 Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53,
 Joseph S. Grush, '53,
 Samuel K. Pickering, '53,
 Hubbard Wilson.

WARD 5.

William A. Richardson, '49, †'53,
President,
 Jonathan Bowers, '53,
 Patrick Conlan, '53,
 John C. Woodward.

WARD 6.

George F. Woods, '53,
 Charles S. Eastman,
 Levi H. Straw,
 William P. Webster.

LEONARD BROWN, *Clerk.***1855.****Mayor:**

AMBROSE LAWRENCE, '49, '51.

Aldermen:

Wm. Fiske, '37, '38, '41, '50, *'51, *'52,
 Artemas L. Brooks, *'49,
 Daniel Woodward,
 Lorenzo G. Howe,

Andrew T. Nute,
 Abner Frost,
 William S. Johnston,
 Shadrach R. Brackett.

WILLIAM LAMSON, JR., *City Clerk.***Common Council:****WARD 1.**

Maynard Bragg, '49, '50,
 Aaron B. Young,
 Augustus B. Roby,
 George L. Harris.

WARD 2.

William G. Morse,
 George K. Paul,
 Mark H. Cook,
 Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, *President,*
 Daniel Hurd,
 Theodore Warren,
 Stephen K. Fielding.

WARD 4.

Joshua W. Daniels,
 John Bennett,
 Alanson Folsom,
 Francis H. Nourse.

WARD 5.

John C. Woodward, '54,
 Stephen Bartlett,
 Jonathan Johnson,
 Oliver P. Rand.

WARD 6.

Levi H. Straw, '54,
 William T. Whitten,
 Lucien P. Stacy,
 James M. Moore.

LEONARD BROWN, *Clerk.*

1856.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44,
†'45, *'47, †'52, *'53, *'54.

Aldermen:

Edward Tuck,
Samuel Burbank, '40, '41, *'52,
Charles B. Coburn, '44,
William P. Webster, '54,
Hapgood Wright, '45, '46,

Charles H. Wilder, '37, '44, '45,
O. J. Conant, resigned in March,
James H. Rand,
Jonathan Johnson, elected in
June.

WILLIAM LAMSON, JR., *City Clerk.*

Common Council:**WARD 1.**

Enos O. Kingsley,
Abiel Pevey,
David M. Collins,
Marshall E. Thompson.

WARD 2.

Isaac Hinckley,
Seth Gage,
Peter Flanders, Jr.,
Leonard F. Jewell.

WARD 3.

David Rogers,
Benj. C. Sargeant, '51, †'52, *President*,
Henry H. Carroll,
Peter Powers.

WARD 4.

Francis H. Nourse, '55,
Alden B. Buttrick,
Holland Streeter, '51, '52,
James Sands.

WARD 5.

Frederick Holton,
Isaac Place,
Albert Wheeler,
Abiel Rolfe, '48, *'51.

WARD 6.

Eliphalet Hills,
Jonathan P. Folsom,
James K. Fellows, '37,
John K. Chase.

JAMES J. MAGUIRE, *Clerk.*

1857.**Mayor:**

STEPHEN MANSUR, '36, '39, *'40, *'47, *'53.

Aldermen:

Andrew T. Nute, *'55,
John C. Woodward, '54, '55,
Jonathan Smothers, '50, '51,
Samuel W. Stickney,

John B. Tuttle,
Francis H. Nourse, '55, '56,
Jonathan Johnson, '55, *'56,
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., *City Clerk.*

Common Council:**WARD 1.**

Abiel Pevey,
Stephen T. Stanley,
Charles A. Welch,
George F. Scribner.

WARD 2.

William G. Morse, '55,
William D. Vinall,
Temple Tebbetts,
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
David Rogers, '56,
Henry H. Carroil, '56,
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50,
John F. Howe,
John C. Jepson,
Alanson Nichols.

WARD 5.

Frederick Holton, '56, *President*,
William H. Wiggin,
William Goodale,
Charles Hubbard.

WARD 6.

Erastus Boyden,
Jonathan Kimball,
Robert J. Garrett,
William Nichols.

HENRY A. LORD, *Clerk.*

1858.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44,
†'45, *'47, †'52, *'53, *'54, †'56.

Aldermen:

Sewall G. Mack, '43, '44, *'47, †'53, †'54,
Samuel W. Stickney, *'57,
Abiel Pevey, '56, '57,
Jeremiah P. Jewett, '42,

Joseph M. Dodge, '37,
Harvey Silver,
Albert Wheeler, '56,
Edwin A. Alger.

JOHN H. MCALVIN, *City Clerk.*

Common Council:**WARD 1.**

Charles Wilkins,
John M. Maynard,
John E. Webb,
William Barnard.

WARD 2.

Edward Tuck, *'56,
William P. Webster, '54, *'56,
Andrew Blood,
William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
'57, *President*,
Hanover Dickey,
Joseph A. Brabrook,
Benjamin S. Butterworth.

WARD 4.

Enoch P. Young,
Zephaniah Goward,
Jesse Blake,
John F. Howe, '57.

WARD 5.

Willard Dudley,
Samuel T. Manahan,
Isaac Page,
John Avery, 2d.

WARD 6.

William Nichols, '57,
Alpha B. Farr, resigned in Jan.,
Leonard Brown, '53, '54, elec'd Feb.,
Erastus Boyden, '57,
James H. Rand, *'56, resign'd May,
Eben'r Burgess, elected in June.

GEORGE GARDNER, *Clerk.*

1859.**Mayor:**

JAMES COOK, '36, '53.

Aldermen:

Lorenzo G. Howe, *'55,
Samuel J. Varney, '50, '51, *'52,
Paul Hill, '52, '54,
Ambrose Lawrence, '49, '51, †'55, re-
signed in April,
Darius C. Brown, '51, '52,

John F. Howe, '57, '58,
Joshua Converse, '40, *'51, re'd Apr.,
J. P. Folsom, '56, resign'd in April,
Edward Tuck, *'56, '58, elect'd May,
Sam'l T. Manahan, '58, elec'd May,
Jonathan Ladd, elected in May.

JOHN H. MCALVIN, *City Clerk.*

Common Council:**WARD 1.**

John E. Webb, '58,
Charles Wilkins, '58,
William Barnard, '58,
William D. Blanchard.

WARD 2.

W. P. Webster, '54, *'56, '58, *President*,
William F. Salmon, '58,
James M. Howe, '57,
David Nichols.

WARD 3.

George Hobson,
Asahel D. Puffer,
John Willoughby,
Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57,
Jesse Blake, '58,
George W. Partridge,
George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46,
Luther B. Morse,
Josiah G. Peabody, *'50,
William Goodale, '57.

WARD 6.

Charles A. Stott,
Levi Sprague,
Ebenezer Burgess, '58,
Leonard Brown, '53, '54, '58.

GEORGE GARDNER, *Clerk.*

1860.**Mayor:**

BENJAMIN C. SARGEANT, '51, †'52, †'56, '57, †'58.

Aldermen:

Edward F. Watson, '40, '41, *'44, *'45,
 Lorenzo G. Howe, *'55, *'59,
 James Watson, '50, '51,
 William G. Morse, '55, '57,

Henry H. Wilder, '53, '54,
 Abner Frost, *'55,
 Samuel T. Manahan, '58, *'59,
 William S. Gardner.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Benjamin S. Ireson,
 Enoch Quimby,
 John P. Slocum,
 Amos H. Foster.

WARD 2.

Henry P. Clough,
 Alfred S. Saunders, '49,
 Wm. F. Salmon, '58, '59, *President*,
 Joseph L. Sargent.

WARD 3.

George Hobson, '59,
 Josiah B. Fielding,
 Henry P. Perkins,
 Hocum Hosford.

WARD 4.

George W. Partridge, '59,
 George W. Young, '59,
 Morrill M. Bohonan,
 Caleb Crosby, '49, '50, '57, '59.

WARD 5.

Josiah G. Peabody, *'50, '59,
 Sullivan L. Ward,
 George F. Morey,
 William H. Lamson.

WARD 6.

William Nichols, '57, '58,
 Samuel T. Lancaster,
 Charles A. Stott, '59,
 Foster Nowell.

GEORGE GARDNER, *Clerk.***1861.****Mayor:**

BENJAMIN C. SARGEANT, '51, †'52, †'56, '57, †'58, †'60.

Aldermen:

Samuel T. Manahan, '58, *'59, *'60,
 Jonathan P. Folsom, '56, *'59,
 James Watson, '50, '51, *'60,
 William G. Morse, '55, '57, *'60,
 Hocum Hosford, '60,

Aldis L. Waite,
 David Whitney, declined acceptance,
 Sager Ashworth, elected in May,
 William S. Gardner, *'60.

JOHN H. McALVIN, *City Clerk.***Common Council:****WARD 1.**

Frank E. Jewett,
 M. Gilbert Perkins,
 Jacob Baron,
 William D. Blanchard, '59.

WARD 2.

Alfred S. Saunders, '49, '60,
 Joseph L. Sargent, '60,
 Henry P. Clough, '60,
 Henry S. Orange.

WARD 3.

William L. North, *President*,
 George W. Norris,
 Henry P. Perkins, '60,
 James G. Morrison.

WARD 4.

Joseph Cater,
 Joseph B. Keyes,
 Morrill M. Bohonan, '60,
 Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60,
 Samuel Beck,
 William H. Parker,
 George F. Morey, '60.

WARD 6.

Samuel T. Lancaster, '60,
 Foster Nowell, '60,
 Elon A. Sanborn,
 George E. Dana.

GEORGE GARDNER, *Clerk.*

1862.

Mayor:

HOCUM HOSFORD, '60, * '61.

Aldermen:

Mertoun C. Bryant,
Edwin A. Alger, * '58,
James B. Francis, * '49, * '50,
William A. Burke,

Isaac F. Scripture,
Aldis L. Waite, * '61,
Albert Wheeler, '56, * '58,
Jona. P. Folsom, '56, * '59, * '61.

JOHN H. McALVIN, *City Clerk.*

Common Council:

WARD 1.

Amos D. Wright,
Frank E. Jewett, '61,
Horatio G. Burgess,
Charles F. Hard.

WARD 2.

Benedict O. Carpenter,
William T. McNeill,
Lorenzo G. Howe, * '55, * '58, * '60,
Henry S. Orange, '61.

WARD 3.

George W. Norris, '61,
Edmund D. Fletcher,
Everett W. French,
John Quinn.

WARD 4.

Joseph B. Keyes, '61,
George Runels,
John Pettingell,
Hubbard Willson, '54.

WARD 5.

Rollin C. Downs,
Albert Mallard, '50, '51,
Edward Fifield, '51, '52,
Cleveland J. Cheney.

WARD 6.

Geo. F. Richardson, *President*,
Albion J. Dudley,
Elon A. Sanborn, '61,
Frederick Frye.

GEORGE GARDNER, *Clerk.*

1863.

Mayor:

HOCUM HOSFORD, '60, * '61, † '62.

Aldermen:

James B. Francis, * '49, * '50, * '62,
Edwin A. Alger, * '58, * '62,
Abiel Pevey, '56, '57, * '58,
William A. Burke, * '62,

Isaac F. Scripture, * '62,
Otis Allen, '43, '48,
Albert Wheeler, '56, * '58, * '62,
William Nichols, '57, '58, '60.

JOHN H. McALVIN, *City Clerk.*

Common Council:

WARD 1.

Charles F. Hard, '62,
Amos D. Wright, '62,
John Cosgrove,
William A. Wright.

WARD 2.

George F. Sawtell,
Henry S. Orange, '61, '62,
Hugh McEvoy,
Nathaniel Stearns.

WARD 3.

Everett W. French, '62,
Fordyce Coburn, '50, '51,
Edmund D. Fletcher, '62,
John Quinn, '62.

WARD 4.

Atwell F. Wright,
Josiah Gates,
William Stafford,
John McCann.

WARD 5.

James C. Ayer,
Charles W. Saunders,
Cyrus H. Latham,
John E. Downs.

WARD 6.

Geo. F. Richardson, † '62, *Pres.*,
Albion J. Dudley, '62,
Benedict O. Carpenter, '62,
Frederick Frye, '62.

GEORGE GARDNER, *Clerk.*

1864.

Mayor:

HOCUM HOSFORD, '60, *'61, †'62, †'63.

Aldermen:

William S. Southworth,
James B. Francis, *'49, *'50, *'62, *'63,
Dana B. Gove,
William T. McNeill, '62,

George W. Norris, '61, '62,
George Runels, '62,
Cyrus H. Latham, '63,
George F. Richardson, †'62, †'63.

JOHN H. McALVIN, *City Clerk*.

Common Council:

WARD 1.

Alden B. Watson,
Lewis L. Perrin,
Frederick S. Tukey,
John Cosgrove, '63.

WARD 2.

George Ripley, *President*,
Andrew F. Jewett,
Artemas S. Young,
Hoyt W. Hilton.

WARD 3.

Samuel N. Wood, ,
Charles W. Dodge,
Joseph S. Pollard,
James G. Morrison, '61.

WARD 4.

Atwell F. Wright, '63,
Daniel Churchill,
William W. Sherman,
Francis Jewett.

WARD 5.

John E. Downs, '63,
Thos. G. Gerrish, res'd June 14,
Charles Hubbard, '57,
Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59,
Tobias L. P. Lamson,
Addison Putnam,
Albion J. Dudley, '62, '63.

GEORGE GARDNER, *Clerk*.

1865.

Mayor:

JOSIAH G. PEABODY, *'50, '59, '60.

Aldermen:

Ew'd F. Watson, '40, '41, *'44, *'45, *'60,
George W. Norris, '61, '62, *'64,
Dana B. Gove, *'64,
William T. McNeill, '62, *'64,

Henry H. Wilder, '53, '54, *'60,
Josiah Gates, '63,
Cyrus H. Latham, '63, *'64,
William Brown, '45, '46.

JOHN H. McALVIN, *City Clerk*.

Common Council:

WARD 1.

Alden B. Watson, '64,
Lewis L. Perrin, '64,
George N. Osgood,
John R. Southwick, '47.

WARD 2.

George Ripley, †'64, *President*,
Andrew F. Jewett, '64,
Julian V. Keyes,
Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64,
Charles W. Dodge, '64,
Edward C. Rice,
Frederick T. North.

WARD 4.

Francis Jewett, '64,
Benjamin Walker,
Benjamin L. Googins,
John Pearson.

WARD 5.

Charles Hubbard, '57, '64,
James Kent,
Simeon D. Osterhoudt,
James Foster.

WARD 6.

Tobias L. P. Lamson, '64,
Luke C. Dodge,
Gustavus A. Gerry,
James M. Moore, '55.

GEORGE GARDNER, *Clerk*.

1866.**Mayor:****JOSIAH G. PEABODY, ***'50, '59, '60, †'65.**Aldermen:**

Samuel A. Brown,
 Albert B. Plimpton,
 John R. Southwick, '47, '65,
 Joseph L. Sargent, '60, '61,

Charles W. Dodge, '64, '65,
 Josiah Gates, '63, *'65,
 Henry M. Hooke,
 Albion J. Dudley, '62, '63, '64.

JOHN H. McALVIN, City Clerk.**Common Council:****WARD 1.**

William A. Hodge,
 William A. Wright, '63,
 Jacob Baron, '61,
 Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65,
 George H. Whitmore,
 Julian V. Keyes, '65,
 Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65,
 Frederick T. North, '65,
 James N. Pinkham,
 Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65,
 Alfred Scott,
 Thomas F. Burgess,
 Benjamin Walker, '65.

WARD 5.

Robert H. Butcher,
 John T. Lee,
 George L. Huntoon,
 Jonathan Johnson, '55, *'56, *'57.

WARD 6.

Gustavus A. Gerry, '65, *President*,
 Luke C. Dodge, '65,
 Charles A. Kimball,
 Alfred H. Chase.

GEORGE GARDNER, Clerk.**1867.****Mayor:****GEORGE F. RICHARDSON, †'62, †'63, *'64.****Aldermen:**

Charles B. Coburn, '44, '51, *'56,
 Hocum Hosford, 60, *'61, †'62, †'63, †'64,
 John R. Southwick, '47, '65, *'66,
 Joseph L. Sargent, 60, '61, *'66,
 Edward C. Rice, '65, '66,

Abner W. Buttrick, '40, '44, '45, '50;
 died June 29, '67.
 Wm. E. Livingston, el. Sept. 9, '67.
 Wm. H. Parker, '61,
 Albion J. Dudley, '62, '63, '64, *'66.

JOHN H. McALVIN, City Clerk.**Common Council:****WARD 1.**

John Shepard,
 Calvin Sawtell,
 Foster Wilson,
 M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, †'66, *President*,
 Ruel J. Walker,
 William Dobbins,
 Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, *'59, *'61, *'62,
 Frederick T. North, '65, '66,
 Samuel D. Prescott,
 Nathan M. Wright.

WARD 4.

John B. Hunt,
 John Q. A. Hubbard,
 Alfred Scott, '66,
 Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66,
 George S. Cheney,
 James Foster, '65,
 John T. Lee, '66.

WARD 6.

Alfred H. Chase, '66,
 James Lawton,
 John N. Peirce, Jr.,
 Foster Nowell, '60, '61, resigned
 May 14, '67.
 Wm. Kittredge, elected Sept. 9, '67.

GEORGE GARDNER, Clerk.

1868.**Mayor:**

GEORGE F. RICHARDSON, †'62, †'63, *'64, †'67.

Aldermen:

Charles B. Coburn, '44, '51, *'56, *'67.
Francis Jewett, '64, '65,
John M. Pevey, resigned in July.
Charles L. Hildreth, elected in Sept.
Silas Tyler, Jr., '67.

Edward C. Rice, '65, '66, *'67,
William E. Livingston, *'67,
Frederic Frye, '62, '63,
Albion J. Dudley, '62, '63, '64, *'66,
* '67.

JOHN H. MCALVIN, *City Clerk.*

Common Council:**WARD 1.**

Calvin Sawtell, '67,
John Shepard, '67,
John F. Merrill,
Frederic T. Greenhalge.

WARD 2.

Francis D. Munn,
Joseph A. Patten, '55,
Ruel J. Walker, '67,
Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger,
Samuel D. Prescott, '67,
William Walker,
Albert A. Haggett.

WARD 4.

William H. Anderson,
John Q. A. Hubbard, '67,
Charles T. Crane,
John B. Hunt, '67.

WARD 5.

Edwin Lamson,
George S. Cheney, '67.
William Kelley,
Ethan N. Spencer.

WARD 6.

John N. Peirce, Jr., '67,
James Lawton, '67,
Francis Brown,
Alfred H. Chase, '66, '67, *President.*

GEORGE GARDNER, *Clerk.*

1869.**Mayor:**

JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67.

Aldermen:

Francis Jewett, '64, '65, *'68,
Henry H. Wilder, '53, '54, *'60, *'65,
Charles L. Hildreth, *'68,
Cyrus H. Latham, '63, *'64, *'65.

Hapgood Wright, '45, '46, *'56,
John Q. A. Hubbard, '67, '68,
George S. Cheney, '67, '68,
Charles A. Stott, '59, '60.

JOHN H. MCALVIN, *City Clerk.* Resigned March 15, 1869.

SAMUEL A. MCPHETRES, *City Clerk.* Elected March 15, 1869.

Common Council:**WARD 1.**

Frederic T. Greenhalge, '68,
John H. Durgin, Jr.,
Patrick Keyes,
Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68,
Phineas Jones,
Francis D. Munn, '68,
Amos Sanborn.

WARD 3.

George W. Badger, '68,
Albert A. Haggett, '68,
William Walker, '68,
George E. Pinkham.

WARD 4.

William H. Anderson, '68, *Pres.*,
Simeon G. Lyford,
Henry P. Carter,
Epaphras A. Hill.

WARD 5.

William Kelley, '68,
Willard A. Brown,
William O. Fiske,
Edwin Lamson, '68.

WARD 6.

Francis Brown, '68,
Alpha B. Farr, '58,
Lucian P. Stacy, '55,
William Kittredge, '67.

GEORGE GARDNER, *Clerk.*

1870.**Mayor:**

JONATHAN P. FOLSOM, '56, * '59, * '61, * '62, '67, † '69.

Aldermen:

Edward F. Sherman,	Hapgood Wright, '45, '46, * '56, * '69.
Frank F. Battles,	John Q. A. Hubbard, '67, '68, * '69.
Charles L. Hildreth, * '68, * '69.	Addison Putnam, '64.
Amos B. French,	Charles A. Stott, '59, '60, * '69.

SAMUEL A. MCPHETRES, *City Clerk*.

Common Council:

<p>WARD 1. John H. Durgin, Jr., '69. Benjamin Patch, '69. Patrick Keyes, '69. Samuel G. Ladd.</p> <p>WARD 2. Phineas Jones, '69. John L. Moulton, Patrick Cummiskey, David G. Skillings,</p> <p>WARD 3. Albert A. Haggett, '68, '69, <i>President</i>. Henry P. Perkins, '60, '61. Hocuin Hosford, '60, * '61, † '62, † '63, † '64, * '67, declined. Matthew Donovan, John L. Meadowcroft, elected Jan. 24.</p>	<p>WARD 4. Epaphras A. Hill, '69. Henry P. Carter, '69. Simeon G. Lyford, '69. Michael Corbett.</p> <p>WARD 5. William O. Fiske, '69. Willard A. Brown, '69. James D. Hartwell, Jeremiah Crowley.</p> <p>WARD 6. Alpha B. Farr, '58, '69. William Kittredge, '67, '69. Lucian P. Stacy, '55, '69. John Stott.</p>
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GEORGE GARDNER, *Clerk*.

1871.**Mayor:**

EDWARD F. SHERMAN, * '70.

Aldermen:

Frank F. Battles, * '70,	Albert A. Haggett, '68, '69, † '70,
William F. Salmon, '58, '59, † '60,	Henry C. Howe, '53, '54,
John W. Smith, '49, '50,	Frederick Ayer,
Amos B. French, * '70,	Addison Putnam, '64, * '70.

SAMUEL A. MCPHETRES, *City Clerk*.

Common Council:

<p>WARD 1. John H. Durgin, Jr., '69, '70, Samuel G. Ladd, '70, Francis N. J. Haviland, Joel Knapp.</p> <p>WARD 2. William Dobbins, '67, John L. Moulton, '70, Patrick Cummiskey, '70, Amos A. Blanchard.</p> <p>WARD 3. Henry P. Perkins, '60, '61, '70, <i>Pres.</i> John L. Meadowcroft, '70, Horace Ela, Julius C. Jockow.</p>	<p>WARD 4. Benj. Walker, '65, '66, Michael Corbett, '70, Francis H. Chandler, Charles T. Goddard.</p> <p>WARD 5. Jeremiah Crowley, '70, Crawford Burnham, Henry C. Church, Patrick Lynch.</p> <p>WARD 6. Leonard Brown, '53, '54, '58, '59, John Stott, '70, Abel T. Atherton, Nathaniel C. Sanborn.</p>
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GEORGE GARDNER, *Clerk*.

1872.**Mayor:****JOSIAH G. PEABODY**, *'50, '59, '60, †'65, †'66.**Aldermen:**

Henry C. Howe, '53, '54, *'71,	Frederick T. North, '65, '66, '67,
Alexander G. Cumnock,	Benj. Walker, '65, '66, '71,
Benjamin Patch, '69, '70,	William Kelley, '68, '69,
Gustavus A. Gerry, '65, †'66, †'67,	Alpha B. Farr, '58, '69, '70.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**John E. Webb, '58, '59,
Alonzo F. Caswell,
Southwell Farrington,
True P. Jordan.**WARD 2.**Leonard Brown, '53, '54, '58, '59, '71,
Amos A. Blanchard, '71,
Joseph S. Brown,
Earl A. Thissell.**WARD 3.**Henry P. Perkins, '60, '61, '70, †'71,
Horace Ela, '71, [Pres.
Julius C. Jockow, '71,
Charles F. Tilton.**WARD 4.**Nathaniel P. Favor,
Nathan W. Frye,
Henry A. Lord,
Alonzo L. Russell.**WARD 5.**Crawford Burnham, '71,
Charles F. Belden,
Luther J. Eames,
William Shepard.**WARD 6.**Abel T. Atherton, '71,
Nathaniel C. Sanborn, '71,
Samuel M. Chase,
Julian Talbot.GEORGE GARDNER, *Clerk.***1873.****Mayor:****FRANCIS JEWETT**, '64, '65, *'68, *'69.**Aldermen:**

Jonathan P. Folsom, '56, *'59, *'61,	Charles A. F. Swan, elected Jan. 14,
*'62, '67, †'69, †'70,	Jacob H. Sawyer,
George Runels, '62, *'64,	Jeremiah Crowley, '70, '71,
Edward Tuck, *'56, '58, *'59, declin'd,	Alpha B. Farr, '58, '69, '70, *'72,
Isaac Farrington, '46, '47, declined,	George Stevens.
William Dobbins, '67, '71, elec. Jan. 14,	

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**John E. Webb, '58, '59, '72,
Alonzo F. Caswell, '72,
Frank Brady,
Stephen J. Smiley,**WARD 2.**Joseph S. Brown, '72,
Earl A. Thissell, '72,
Daniel Stickney,
Edward P. Woods.**WARD 3.**Albert A. Haggett, '68, '69, †'70, *'71,
Charles F. Tilton, '72, resig'd Mar. 1,
William Bass,
James Owens,
James A. Loughlin, elected April 8.

[Pres.

WARD 4.Atwell F. Wright, '63, '64,
Nathaniel P. Favor, '72,
Nathan W. Frye, '72,
Henry A. Lord, '72.**WARD 5.**Robert H. Butcher, '66,
Charles F. Belden, '72,
Jared P. Maxfield,
George Smith.**WARD 6.**Nathaniel C. Sanborn, '71, '72,
Samuel M. Chase, '72,
George W. S. Hurd,
Artemas S. Tyler.GEORGE GARDNER, *Clerk.*

1874.**Mayor:**

FRANCIS JEWETT, '64, '65, *'68, *'69, †'73.

Aldermen:

Jeremiah Crowley, '70, '71, *'73,
 Benj. Walker, '65, '66, '71, *'72,
 Alonzo F. Caswell, '72, '73,
 Joseph S. Brown, '72, '73,

Jonathan Kendall, '42, '44, '52,
 George L. Huntoon, '66, '67,
 Nathaniel C. Sanborn, '71, '72, '73,
 George Stevens, *'73.

SAMUEL A. McPHETRES, *City Clerk.***Common Council:****WARD 1.**

Charles A. Welch, '57,
 Frank Brady, '73,
 Stephen J. Smiley, '73,
 Charles H. Harvey.

WARD 2.

Daniel Stickney, '73,
 Edward P. Woods, '73,
 Charles J. Eastman,
 Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72,
 James Owens, '73,
 James A. Loughlin, '73,
 George W. Tilton.

WARD 4.

Charles T. Goddard, '71,
 Nathan W. Frye, '72, '73, *President*,
 Jacob H. Sawyer, *'73,
 Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73,
 John B. Lyford,
 Samuel P. Marin,
 John Scott.

WARD 6.

George W. S. Hurd, '73,
 Joel A. Abbott,
 Thomas Carolin,
 Jason Fuller.

GEORGE GARDNER, *Clerk*, died May 29.DAVID CHASE, *Clerk*, elected June 4.**1875.****Mayor:**

FRANCIS JEWETT, '64, '65, *'68, *'69, †'73, †'74.

Aldermen:

Benj. Walker, '65, '66, '71, *'72, *'74,
 Jacob Rogers,
 John A. Goodwin,
 Joseph S. Brown, '72, '73, *'74,

Hapgood Wright, '45, '46, *'56, *'69,
 James Owens, '73, '74,
 Alden B. Richardson,
 Samuel A. Chase.

SAMUEL A. McPHETRES, *City Clerk.***Common Council:****WARD 1.**

Charles A. Welch, '57, '74,
 Charles H. Harvey, '74,
 John F. Howard,
 John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73,
 Edward E. Reed, '74,
 William A. Read,
 Leavitt R. J. Varnum.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71,
 George W. Tilton, '74, [†'73, *Pres.*
 Charles Cowley,
 Thomas R. Garity.

WARD 4.

Josiah Butler,
 Francis Carll,
 Edward P. Dennis,
 Edward Stockman.

WARD 5.

James D. Hartwell, '70,
 John B. Lyford, '74,
 Orford R. Blood,
 Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74,
 Thomas Carolin, '74,
 Jason Fuller, '74,
 Albert D. Wright.

DAVID CHASE, *Clerk.*

1876.**Mayor:**

CHARLES A. STOTT, '59, '60, *'69, *'70.

Aldermen:

Jacob Rogers, *'75,	Henry A. Hildreth,
John A. Goodwin, *'75, [†'73, †'75,	George E. Stanley,
Albert A. Haggett, '68, '69, †'70, *'71,	Francis Carll, '75,
Charles F. Belden, '72, '73,	William H. Wiggin, '57.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

John W. Welch, '75,
 Lewis Stiles.
 Daniel W. Manning,
 David M. Collins, '56, declined,
 John F. Howard, '75, elected Jan. 11.

WARD 2.

Leavitt R. J. Varnum, '75,
 Charles E. Hallowell,
 Charles Callahan,
 William A. Read, '75.

WARD 3.

Charles Cowley, '75,
 Charles H. Kimball,
 Charles Runels,
 James Howard, died after election,
 William H. Grady, elected Jan. 11.

WARD 4.

Edward Stockman, '75, res. May 23,
 Gardner W. King,
 Stephen H. Jones,
 Charles D. Starbird,
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood, '75,
 John F. Kimball, *Pres. from* May 23,
 Charles H. Hanson,
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn,
 Benjamin C. Dean, *Pres.*, res. May 23,
 Charles H. Walker,
 John J. Pickman,
 Willis Farrington, elected June 22.

DAVID CHASE, *Clerk.***1877.****Mayor:**

CHARLES A. STOTT, '59, '60, *'69, *'70, †'76.

Aldermen:

Jeremiah Crowley, '70, '71, *'73, *'74,	Orford R. Blood, '75, '76, seat vacated,
Horace R. Barker,	Stephen B. Puffer, dec. el. Jan. 2,
George E. Stanley, *'76,	Robert Park,
Charles H. Kimball, '76,	George E. Pinkham, '69.
George P. Walker,	

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

Daniel W. Manning, '76,
 Lewis Stiles, '76,
 John Courtney,
 Frank Brady, '73, '74, res. March 27,
 Jared P. Maxfield, '73, '74, elec. May 8.

WARD 2.

Charles E. Hallowell, '76,
 Francis D. Munn, '68, '69,
 Charles H. Robbins,
 Oliver M. Harding.

WARD 3.

William H. Grady, '76,
 Patrick Lynch,
 Simon Kelly,
 George E. Davis.

WARD 4.

Gardner W. King, '76,
 James W. Bennett, '76,
 Irving K. Goodale,
 Orlando Blodgett.

WARD 5.

John F. Kimball, †'76,
 Charles H. Hanson, '76,
 Peter S. Coburn,
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76,
 John J. Pickman, '76,
 Charles H. Walker, '76,
 Augustus E. Spaulding, d. Jan. 10,
 George S. Cushing, elected Feb. 6.

DAVID CHASE, *Clerk.*

1878.**Mayor:****JOHN A. G. RICHARDSON.****Aldermen:**

Stephen B. Puffer, * '77,
 Robert Park, * '77,
 Horace R. Barker, * '77,
 George F. Scribner, '57,

George E. Scripture,
 Joseph S. Pollard, '64, '65. [* '77,
 Jeremiah Crowley, '70, '71, * '73, * '74,
 Nathaniel C. Sanborn, '71, '72, '73, * '74.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

John Courtney, '77,
 John J. Mealey,
 Joseph M. Ambrose,
 Charles H. Harvey, '74, '75.

WARD 2.

Oramel A. Brigham,
 Edward M. Tucke,
 William W. Clark,
 Albert W. Monty.

WARD 3.

Simon Kelly, '77,
 Edward Cawley,
 Henry P. Morris,
 Samuel D. Butterworth.

WARD 4.

Irving K. Goodale, '77,
 Orlando Blodgett, '77,
 Robert G. Bartlett,
 Stephen H. Jones, '76.

WARD 5.

Robert Goulding, '77,
 Peter S. Coburn, '77,
 John F. Kimball, ‡ '76, ‡ '77, *Pres.*,
 Enos O. Kingsley, '56.

WARD 6.

George S. Cushing, '77,
 Eli W. Hoyt,
 Luke B. Taylor,
 Miles F. Brennan, to Jan. 22,
 Thomas Nesmith, from Jan. 22.

DAVID CHASE, *Clerk.***1879.****Mayor:****JOHN A. G. RICHARDSON, † '78.****Aldermen:**

Horace R. Barker, * '77, * '78,
 Charles A. R. Dimon,
 Joseph S. Pollard, '64, '65, * '78,
 Charles S. Lilley,

George E. Scripture, * '78.
 George F. Scribner, '57, * '78,
 Charles F. Howe,
 Robert Goulding, '77, '78.

SAMUEL A. MCPHETRES, *City Clerk.***Common Council:****WARD 1.**

Joseph M. Ambrose, '78,
 John O'Donnell,
 James Kelly,
 Richard J. Noonan.

WARD 2.

Albert W. Monty, '78,
 Charles H. Richardson,
 William K. Chase, res. Nov. 25,
 Edwin A. Robinson,
 Edward M. Tucke, '78, elect. Dec. 9.

WARD 3.

Edward Cawley, '78,
 Henry P. Morris, '78,
 William T. Benson,
 Patrick A. Rogers.

WARD 4.

Robert G. Bartlett, '78,
 Fred Woodies,
 Charles F. Varnum,
 Charles E. Farrington.

WARD 5.

Albert W. Burnham,
 Ambrose L. Ready,
 Joseph M. Wilson,
 Edward B. Peirce, *Pres.*

WARD 6.

Eli W. Hoyt, '78.
 Luke B. Taylor, '78.
 Major A. Shaw.
 Miles F. Brennan, '78.

DAVID CHASE, *Clerk.*

1880.

Mayor:

FREDERIC T. GREENHALGE, '68, '69.

Aldermen:

James D. Hartwell, '70, '75,
Atwill F. Wright, '63, '64,
Charles H. Richardson,
Edwin Lamson, '68, '69,

Isaac F. Scripture, * '62, * '63,
Robert Wood,
Charles H. Coburn,
James C. Abbott.

SAMUEL A. MCPHETRES, *City Clerk.*

Common Council:

WARD 1.

James Kelly, '79,
Richard J. Noonan, '79,
Thomas J. Flynn,
Lawrence Cummings.

WARD 2.

Edwin A. Robinson, '79,
Wilbur L. Bates,
Samuel W. Foster,
Earl A. Thissell, '72, '73, '75, *Pres't.*

WARD 3.

Peter H. Donohoe,
William T. Benson, '79,
Patrick A. Rogers, '79,
Frank Wood.

WARD 4.

Fred Woodies, '79,
Charles F. Varnum, '79,
Charles E. Farrington, '79,
Charles D. Starbird, '76.

WARD 5.

Joseph M. Wilson, '79,
Ambrose L. Ready, '79,
Samuel Hosmer,
Edward B. Peirce, ‡ '79.

WARD 6.

Benjamin F. Freeman,
J. Tyler Stevens,
Charles C. Hutchinson.
Henry C. Cooper.

DAVID CHASE, *Clerk.*

1881.

Mayor:

FREDERIC T. GREENHALGE, '68, '69, † '80.

Aldermen:

Charles H. Richardson, * '80,
Isaac F. Scripture, * '62, * '63, * '80,
Robert Wood, * '80,
Ambrose L. Ready, '79, '80,

Levi Sprague, '59, '64,
Julius A. Stiles,
Samuel D. Butterworth, '78,
Thomas R. Garity, '75.

SAMUEL A. MCPHETRES, *City Clerk.*

Common Council:

WARD 1.

Thomas J. Flynn, '80,
Lawrence Cummings, '80,
Robert J. Thomas,
Jeremiah J. Hayes.

WARD 2.

Zachariah D. Hall,
James M. Howe, '57, '59,
Hubert M. Potter,
Moses Gibson.

WARD 3.

Frank Wood, '80,
Peter H. Donohoe, '80,
John E. Maguire,
D. Moody Prescott.

WARD 4.

Julius C. Johnson,
Stephen C. Davis,
Edward Garner,
William N. Osgood.

WARD 5.

Atkinson C. Varnum,
Samuel Hosmer, '80,
Samuel P. Marin, '74,
Albert W. Burnham, '79.

WARD 6.

Charles C. Hutchinson, '80,
Albert G. Thompson,
Thomas Nesmith, '78,
Lawrence J. Smith.

DAVID CHASE, *Clerk.*

1882.**Mayor:****GEORGE RUNELS, '62, * '64.****Aldermen:**

Thomas R. Garity, '75, * '81, *Chair'n.*
 * Charles W. Sleeper,
 George B. Smith,
 William A. Wright, '63, '66,
 David Whitaker,

D. Moody Prescott, '81,
 George S. Cushing, '77, '78,
 John F. Phillips,
 † John Welch.

‡ SAMUEL A. McPHETRES, *City Clerk.*

§ DAVID W. O'BRIEN, " "

* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy.

‡ Died Sept. 29, 1882.

§ Elected Oct. 4, 1882.

Common Council:**WARD 1.**

Robert J. Thomas, '81,
 Jeremiah J. Hayes, '81,
 Dennis J. Crowley,
 John A. Walsh.

WARD 2.

Zachariah D. Hall, '81,
 James M. Howe, '57, '59, '81,
 Moses Gibson, '81,
 James F. Puffer, Jr.

WARD 3.

Frank Wood, '80, '81,
 John E. Maguire, '81,
 John J. Mead,
 James Grady.

WARD 4.

Julius C. Johnson, '81,
 Stephen C. Davis, '81,
 Edward Garner,
 William N. Osgood, * '81.

WARD 5.

Atkinson C. Varnum, '81,
 Albert W. Burnham, '79, '81,
 Artemas B. Woodworth,
 Horace B. Barnes.

WARD 6.

Albert G. Thompson, '81,
 Lawrence J. Smith, '81,
 Thaddeus S. Cobb,
 Miles J. Fletcher.

DAVID CHASE, *Clerk.*

* President Council, 1882.

ORDINANCES
OF THE
CITY OF LOWELL,
PASSED SINCE
DECEMBER 29, 1876.

ORDINANCES OF THE CITY OF LOWELL.

No. 1.

AN ORDINANCE TO AMEND SECTION 11 OF CHAPTER XVI OF THE ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows :

That Section 11, of Chapter xvi, of the Ordinances of the City of Lowell, be and the same is hereby amended, by adding the following words at the end of said section :

No person not licensed as aforesaid shall employ or use any wagon, cart, truck, sleigh, sled, or other vehicle which may be necessary for the conveyance from place to place within the city, for hire, of any wood, coal, lumber, stone, brick, sand, gravel, clay, dirt, rubbish, goods, wares, furniture, or merchandise.

Approved Nov. 13, 1877.

No. 2.

AN ORDINANCE AMENDING AN ORDINANCE.

Be it ordained by the City Council of the City of Lowell, as follows :

That the last two lines except the first word in said lines in Section 11, Chapter 16th, be stricken out, and the following lines inserted, viz :

The west side of the west end of Jackson Street, from the head of said street to the branch track of the Boston & Lowell Railroad.

Approved Dec. 26, 1877.

No. 3.**AN ORDINANCE FIXING THE TIME FOR ESTABLISHING SALARIES.**

Be it ordained by the City Council of the City of Lowell, as follows :

The salaries and compensation of city officers shall be established in the month of February or March in each year, after the year 1878, and any change made in any existing salary shall take effect upon the first day of April following; and no change of salaries shall be allowed in any year after the passage of the resolution establishing the same for that year; and the salaries or compensation fixed for the payment of the said officers, shall be in full for all services performed by them by virtue of their offices; and all sums of money by them received from any and every source, in discharge of said services during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer.

Section 7 of Chapter 23 of the Ordinances, is hereby repealed.

Approved Dec. 27, 1877.

No. 4.**AN ORDINANCE TO AMEND CHAPTER TWENTY-THREE OF THE REVISED ORDINANCES.**

Be it ordained by the City Council of the City of Lowell, as follows :

That in the second paragraph of Chapter Twenty-three, the following words be stricken out :

“No Assessor of Taxes shall assess in the same ward for more than two consecutive years.”

Approved March 19, 1878.

No. 5.**AN ORDINANCE TO AMEND CHAPTER XVI OF THE ORDINANCES.**

Be it ordained by the City Council of the City of Lowell, as follows :

Chapter Sixteen, of the Ordinances of the City of Lowell, is hereby amended as follows :

In Section 9, by striking out in the third and fourth lines the words, “The east side of Dutton Street, from Market to Merrimack

Street, and inserting in place thereof the words, "The north side of Merrimack Street, from Anne to Dutton Street," and

In Section 11, by striking out the words, "Market" and "Pawtucket" in the eighteenth line, and inserting in place thereof the words, "Merrimack" and "Western," provided, however, that the number of carriages or vehicles allowed positions on the stands named in this Ordinance shall be limited so as not to interfere with public travel or safety, or with persons having business at the Merrimack Street Depot, and the City Marshal is hereby authorized to limit the number of carriages or vehicles allowed places on said stands or any part thereof.

Approved May 28, 1878.

No. 6.

AN ORDINANCE TO AMEND CHAPTER FIFTEEN OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Section Two of Chapter Fifteen of the Ordinances shall not apply to the land lying south of and adjoining Church Street between the Lowell & Andover Railroad and Concord River.

Approved June 25, 1878.

No. 7.

AN ORDINANCE TO AMEND CHAPTER FORTY-ONE OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Section Twenty of Chapter Forty-one of the Revised Ordinances of the City of Lowell, be amended in the paragraph relating to the rate to be charged for water for steam engines, by striking out the word "five," and inserting instead thereof the word "four."

Approved July 27, 1878.

No. 8.

AN ORDINANCE TO AMEND THE ORDINANCES RELATING TO THE BURIAL OF THE DEAD.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. Section 2 of Chapter 2 of the Revised Ordinances of the City of Lowell is hereby amended by striking out the words

“Superintendent of Burials,” and inserting in place thereof the words “City Clerk.”

SECT. 2. It shall be the duty of undertakers or other persons having charge of the burial of bodies of deceased persons brought into the City of Lowell and buried therein, to return to the City Clerk within one week after such burial the facts relating to such dead body, so far as they can be ascertained, required to be returned to the City Clerk by Section 8 of Chapter 2 of the Revised Ordinances of said City, and said Clerk shall record such facts in a book to be kept for that purpose.

SECT. 3. Whenever a body shall be removed from the place of the original or any subsequent interment to another place in the City, or shall be removed from the City, the undertaker or other person having charge of such removal shall within one week thereafter notify the City Clerk in writing, giving the name of the person whose body has been removed and the places where the body was removed from and to, and the City Clerk shall make a note to the original record or correct the same in such manner as to indicate the place of the latest interment.

Approved Feb. 18, 1879.

No. 9.

AN ORDINANCE TO AMEND CHAPTER THIRTY-FOUR OF THE REVISED ORDINANCES OF THE CITY OF LOWELL, RELATING TO THE SUPERINTENDENT OF PUBLIC SCHOOLS.

Be it ordained by the City Council of the City of Lowell, as follows:

Section One of Chapter Thirty-four of the Revised Ordinances of the City of Lowell is hereby amended by striking out the words “January or February” wherever they occur in said Section, and inserting in place thereof the words “July or August.”

Approved March 11, 1879.

No. 10.

AN ORDINANCE ESTABLISHING A FREE DISPENSARY FOR THE RELIEF OF THE SICK POOR OF THE CITY OF LOWELL.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. The Board of Overseers of the Poor shall, as soon as may be after the passage of this Ordinance, provide two or more

suitable rooms, located in a central part of the city, to be used as a Dispensary for the purpose of furnishing medicines and medical and surgical treatment free to the sick poor of the City of Lowell. Said rooms shall be suitably furnished and arranged for consulting and operating rooms, and for keeping and dispensing drugs and medicines as herein provided.

SECT. 2. Said Overseers of the Poor shall cause to be procured and kept for use in said rooms, such drugs, medicines, chemicals, and surgical appliances as may be necessary for the purpose for which said Dispensary is established, provided that the whole expense of said rooms, including rent, furniture, fixtures, medicines, and all other articles provided therefor, and the salary of the clerk to be employed therein, shall not exceed the sum of one thousand dollars per annum.

SECT. 3. Said Overseers of the Poor shall, as soon as may be after the passage of this Ordinance, and during the month of January in each year thereafterwards, appoint a board of twelve consulting physicians, members of the Middlesex North District Medical Society, who shall serve, without compensation, for the term of one year, commencing on the first Monday of February next following their appointment, excepting the Board of Physicians appointed for the current year, whose term of office shall expire on the day preceding the first Monday of February, in the year eighteen hundred and eighty. Said Board of Physicians shall organize on the first Monday of February in each year, and choose one of its members as Chairman. It may make such rules and regulations for its own Government; the management of said rooms; the treatment of patients; the dispensing of medicines, and all other matters relating thereto, as it may deem expedient, subject to the approval of said Overseers of the Poor, who may at any time annul, alter, or amend, said rules and regulations.

SECT. 4. Said Overseers of the Poor shall, as soon as may be after the passage of this Ordinance, and on the first Monday of February in each year thereafterwards, appoint a competent clerk, subject to the approval of the Board of Physicians, whose term of office shall be the same as that of said Board of Physicians, to remain at said rooms during such time as said Board of Physicians, or the Overseers of the Poor, shall require. Said clerk shall compound and dispense such medicines as may be regularly prescribed, and perform such other services connected with said dispensary, as may be required. The compensation of said clerk shall be fixed by

the Overseers of the Poor. All vacancies in said Board of Physicians, or in said office of clerk, may be filled at any time by said Overseers of the Poor, in the same manner, and subject to the same restrictions, as herein provided for their appointment, and said clerk or any member of said Board of Physicians may be removed at any time by said Overseers of the Poor for cause.

SECT. 5. Said rooms shall be kept open for receiving patients and dispensing medicines at least two hours in each day, excepting Sundays, and at such other times as said Board of Physicians or the Overseers of the Poor shall determine. During the time said rooms are kept open, some member of said Board of Physicians shall be present and furnish such medical and surgical treatment to patients as may be required under the rules and regulations of said Board and of the Overseers of the Poor.

SECT. 6. Any Physician residing and practising in said Lowell, who may be called upon to prescribe medicines for sick persons who are residents of said city, and shall find that such persons are unable to pay for such medicine and medical attendance, may send prescriptions for such persons to said Dispensary, and the medicines prescribed shall be furnished therefrom free of charge, provided that the prescription therefor shall contain the name and residence of such sick person, the name of the prescribing physician, and, excepting those of the City Physician, shall be countersigned by one of said consulting physicians, or by the Secretary of the Board of Overseers of the Poor. All such prescriptions shall be preserved by said clerk, and recorded in a book to be kept for that purpose.

SECT. 7. Any resident of the City of Lowell needing such medical or surgical treatment as may be provided at said rooms, and who is unable to pay for the same, may apply therefor in person at said Dispensary, and shall receive medical and surgical treatment therein free of charge, subject to the rules and regulations thereof.

SECT. 8. The Overseers of the Poor shall in the month of December annually make a detailed report to the City Council, of their management of said Dispensary, the receipts and expenditures thereof, the number of patients and character of the diseases treated therein, and such other facts as may be necessary to a full understanding of the condition, benefits, and management of the same. And such report shall be accompanied with such parts of the report of said Board of Consulting Physicians as may be deemed advisable.

Approved June 10, 1879.

No. 11.**AN ORDINANCE RELATING TO WARRANTS FOR CALLING MEETINGS
OF THE CITIZENS.**

Be it ordained by the City Council of the City of Lowell, as follows:

The form of warrants for calling meetings of the citizens of the several wards, as prescribed in Chapter Forty of the Revised Ordinances of the City of Lowell, may be varied by the Mayor and Aldermen, so far as it may be necessary to distinguish in said warrants between the class of citizens allowed by law to vote for all officers or propositions at any election, and the class who are allowed to vote only for a portion of the officers or propositions at such election.

Approved Nov. 11, 1879.

No. 12.**AN ORDINANCE TO AMEND CHAPTER 41 OF AN ORDINANCE
CONSOLIDATING AND ESTABLISHING THE ORDINANCES OF THE
CITY OF LOWELL.**

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. Section 11 of Chapter 41, relating to Water Works, is hereby amended by striking out all of said section and inserting in place thereof the following, to wit: The annual rent for the use of the water shall be made up and assessed to the owners of estates having a service pipe, and not using metered water, on the first day of March in each year, for the year commencing the first day of April succeeding said assessment, and the rates so assessed shall be due and payable in advance on the first day of May following.

No abatements shall be made for vacancies in houses or tenements unless such vacancies shall be of two or more consecutive months' duration, due notice thereof having been given the Water Board at the beginning of said vacancies, or for a less number of persons occupying any premises, after the annual assessment in March.

All charges for specific supplies, or for any 365th part of a year, shall be payable in advance, and before the water is let on.

SECT. 2. Section 12 of Chapter 41 is hereby amended by striking out the word "sixty" in the second line, and inserting in place thereof the word "thirty."

SECT. 3. Section 13 of Chapter 41 is hereby amended by striking out the words "the Superintendent, under the direction of."

SECT. 4. Section 20 of Chapter 41 is hereby amended by striking out the first twelve lines, and inserting in place thereof the words: "The following rates shall be charged annually for the use of the water from and after the first day of April in the year eighteen hundred and eighty, and *pro rata* for any 365th part of a year:

For a family not exceeding six persons, six dollars. Families of more than six persons shall pay fifty cents for each additional person above six." And by striking out the fortieth and forty-first lines and inserting in place thereof the following words: "Steam boilers in dwellings for heating purposes shall be assessed one dollar each; for blocks and public buildings, two to five dollars each building." And by adding the following words to the 65th line, "which shall be assessed upon the owner of the premises where such lime or cement is used."

And by adding after the 95th line the following words, "Blacksmiths: for first forge, three dollars; for each additional forge, one dollar and fifty cents."

"Billiard saloons: for first table, three dollars; for each additional table, one dollar and fifty cents."

"Club rooms: not less than three dollars, nor more than twenty dollars."

And by striking out from line 102, after the word "services," the following words, "New service shall be charged one family rate at least, and one year from the time such service is put in, whether the water is taken or not."

And by striking out all of the words, in said Section 20, after the word "meters" in line 112, and inserting in the place thereof the following words: "After the first day of April, persons charged for the use of water at the annual rates, shall not be allowed to change from annual to metered rates; provided, however, that prior to the first day of March in each year, all water-takers who desire to pay metered, instead of annual rates, may apply to the Water Board for a meter to be placed within their premises on the first day of April following. Said meter shall be furnished and set by the City of Lowell, and the expense thereof shall be paid by the person making application therefor, within thirty days from the time the meter is set; the said city to remain the owner of said meter until the expense of the same is paid.

The charge for metered water shall be fixed and determined by

the Water Board, and bills shall be made payable quarterly on the first days of January, April, July, and October, and if not paid in thirty days after the same are due, the water shall be shut off in accordance with the provisions of Section 12. The Water Board shall have the power to ascertain by meter the quantity of water used in any case, and when in any case the quantity used shall be ascertained and measured by meter, the Water Board may charge for measured water or establish a water rate therefor instead of the specific rate hereinbefore established.

If a meter gets out of order and fails to register, the consumer may be charged at the average daily consumption, as shown by the meter when in order. Repairs of meters may be made by the Water Board, at the expense of the owners, whenever the Water Board deem repairs necessary, and no meter shall be moved or disturbed without permission from the Superintendent of the Water Works. In no case where a meter is set shall the annual charge be less than twelve dollars, which minimum annual charge shall be payable in advance, in all cases where the first quarterly reading of said meter does not indicate such an amount of water used."

Approved Feb. 3, 1880.

No. 13.

AN ORDINANCE RELATING TO THE BOARD OF HEALTH.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. The Board of Health of the City of Lowell shall consist of two persons, not members of the City Council, and the City Physician, *ex-officio*, and shall have all the powers and duties assigned to Boards of Health by the Statutes of the Commonwealth. The Mayor and Aldermen shall, in the month of January in each year, appoint one person to serve as a member of said Board for the term of two years, commencing on the first Monday of February then next ensuing. The members so appointed shall be subject to removal at any time by the Mayor for cause; and all vacancies occurring in said Board shall be filled by the Mayor, with the approval of the Board of Aldermen. The members so appointed shall receive such compensation as the City Council shall from time to time determine. Said Board shall organize on the first Monday in February in each year, by the choice of one of its members as

Chairman, and may at any time choose a Clerk, not a member of the Board, and make such rules and regulations for their own government, and the government of all subordinate officers in its own department, as it may deem necessary.

SECT. 2. The Board of Health may make all regulations which they may deem necessary in regard to the removal and abatement of filth, rubbish, nuisances, and causes of diseases, and shall have power to require the aid and assistance of such agents as may be needed to enforce such regulations; and may fix their compensation and the compensation of the Clerk before mentioned, provided that the whole amount of such compensation shall not exceed the sum appropriated therefor by the City Council.

SECT. 3. It shall be the duty of the City Marshal, subject always to the direction, authority, and control of the Board of Health, to carry into execution all the ordinances and rules made by the City Council relative to causes of sickness, nuisances, and sources of filth that may be injurious to the health, or may affect the comfort of the inhabitants of the city; and to cause all such nuisances, sources of filth, and causes of sickness to be removed, destroyed, or prevented, as the case may require, conformably to such ordinances and rules and the laws of the Commonwealth.

SECT. 4. When there is a main drain or common sewer in any street, highway, passageway, or alley, every owner of land adjoining such street, highway, passageway, or alley, shall make a sufficient drain from his house, yard, or lot, to such sewer, and shall cause all waste water to be conducted through the same to said main drain or common sewer, and no person shall suffer any waste or stagnant water to remain in any cellar or upon any lot or vacant grounds by him owned or occupied.

SECT. 5. When the Board of Health shall be satisfied that any tenement, used as a dwelling-house, is not furnished with a sufficient drain, privy, and vault, or either of them, they shall give notice in writing to the owner or his agent, requiring that a suitable drain, privy, and vault, or either of them, be constructed within such time as they shall appoint; *provided*, that notice to non-residents or unknown owners may be given by advertising in some public newspaper published in Lowell. And in case such requisition be not complied with, the Board shall cause such drain, privy, and vault, or either of them, to be constructed, and the expense thereof shall be charged to such owner or agent.

SECT. 6. Whenever the Board of Health shall find that the num-

ber of persons occupying any tenement is so great as to be the cause of nuisance or sickness, or a source of filth; or whenever any tenement is not furnished with a suitable privy, vault, and drain under ground, according to the provisions of this chapter, the Board may cause all or any persons occupying such tenement to be removed therefrom, first giving them notice in writing to remove, and allowing them the space of at least forty-eight hours in which to comply with said notice.

SECT. 7. Hereafter all privy vaults shall be made of brick and cement, and contain at least eighty cubic feet, and shall be so constructed that the inside of the same shall be at least two feet distant from the line of every adjoining lot, unless the owner of such lot shall consent and agree otherwise, and also two feet from every street, lane, passageway, or public place; and every vault shall be made tight, and its contents shall never be within two feet of the surface of the ground about the same. And whenever any privy or vault shall become offensive, the same shall be cleansed. And in case the condition or construction of any vault or privy shall be different from the requirements of this section, the Board of Health may cause the same to be cleansed, repaired, amended, altered, or removed, and shall charge all the expense incurred in so doing to the owner, or party occupying the estate in which such privy or vault may be; *provided*, they shall first notify such owner or party occupying, in the manner provided in the fifth section of this chapter; and allow the space of at least forty-eight hours for such owner or occupant to comply with such notice.

SECT. 8. No privy or vault shall be opened without permission of the Board of Health, nor in any other mode nor at any other time than such as the Board of Health may direct, and no person shall remove the contents of any vault or privy, except in a water-tight cart or wagon, the owner or driver of which shall be licensed therefor, upon such terms and regulations as the Board of Aldermen prescribe, and no person owning or driving such cart or wagon shall cause or permit the same to enter, stand in, or proceed through any of the streets, lanes, or public places of the city, at any other time than between the hours of ten o'clock, P. M., and four o'clock, A. M., except by written permission of the Board of Health.

SECT. 9. Whenever it shall appear to the Board of Health that any cellar, lot, or vacant land within the city has become a nuisance, or so situated that it may probably become dangerous to the public health, they may cause the same to be drained, filled up, or other-

wise prevented from becoming or remaining a nuisance or a cause of sickness; and shall charge all reasonable expenses incurred in so doing to the several owners or parties occupying such cellar, lot, or vacant land; *provided*, notice shall have been first given as provided in the fifth section of this chapter, and the space of forty-eight hours thereafter allowed.

SECT. 10. No person shall remove or carry through any street, alley, or public place in the city, any house-dirt, offal, filth, rubbish, contents of any privy or vault, or waste matter of any kind, from any dwelling-house or other place, unless the owner or driver of the cart, wagon, or other conveyance in which the same be carried, shall be licensed for such purpose by the Board of Aldermen.

SECT. 11. No person shall cast any vegetable or dead animal substance into any street, lane, passageway, cesspool, or sewer, nor into any of the wells, cisterns, reservoirs, ponds, canals, or waters within the city, nor cause any animal to be drowned in said waters. Nor shall any person place, sweep, or deposit any dirt, sawdust, soot, ashes, cinders, shreds, shavings, hair, manure, oyster or lobster shells, or any rubbish, offal, or filth of any kind in or upon any public highway, street, sewer, sidewalk, court, passageway, or public place, without a written license from the Board of Health.

SECT. 12. No person shall bring into the city for sale, nor offer for sale, any diseased, unwholesome, stale, or putrid meat, fish, or other article of provisions, nor any fish, except fresh salmon and shad, and except smelts and other small fish, that shall not first have been cleansed of their entrails and refuse parts.

SECT. 13. All house-dirt, rubbish, filth, and waste matter that may be collected in any house or warehouse, or on private property in the city, shall, when ordered by the Board of Health, be carried away therefrom, under the direction of the City Marshal, by and at the expense of the owner or occupant of such house, warehouse, or other private property, and removed to such place as may be directed by the Marshal as aforesaid, within twenty-four hours after such order. And the City Marshal, when ordered by the Board of Health, shall, at any time between sunrise and sunset, enter into any building or other place in the city, for the purpose of examining into, destroying, removing, or preventing any nuisance, source of filth, or cause of sickness therein. And in case such entrance be opposed, he shall make known such opposition to the Board of Health, in order that a warrant may be obtained to enforce the same, as provided by law.

SECT. 14. No person shall remove any manure, or cause or suffer the same to be removed, between the first day of May and the first day of November, except between the hours of twelve o'clock at night and two hours after sunrise, without a permit therefor from the Board of Health.

SECT. 15. No fowls, swine, or goats shall be kept within the limits of the city, without the license of the Board of Health, and only in such place and manner as they may direct.

SECT. 16. It shall be the duty of the City Marshal to keep an exact account of all costs, outlays, and expenses that may be incurred in carrying into effect any of the purposes and provisions set forth or contained in the fifth, seventh, and ninth sections of this chapter, and without delay to report the same to the Auditor of Accounts, with the names of the various persons to whom they may be chargeable, and the proportion or amount payable from each person. And the Auditor shall examine, correct, and charge the same in his books, and without delay make out bills therefor, and place said bills in the hands of the City Treasurer for collection.

SECT. 17. Any person who shall offend against any of the provisions of this chapter shall forfeit and pay for each offence a sum not exceeding twenty dollars.

SECT. 18. All ordinances or parts of ordinances inconsistent with the provisions of this ordinance are hereby repealed.

SECT. 19. This ordinance shall take effect upon its passage.

Approved March 9, 1880.

No. 14.

AN ORDINANCE PROVIDING FOR THE PAYMENT OF THE CITY DEBT.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. All sums of money hereafter received from the Commonwealth of Massachusetts, on account of corporation tax or national bank tax, or from the credits standing to the account of abatement of taxes, shall, until Jan. 1, 1896, be placed to the credit of a "fund for the reduction of the ordinary city debt," which becomes due in the years 1880 to 1895, inclusive.

SECT. 2. Said sums of money, when received, shall be invested by the Commissioners of Sinking Funds, and with the accumulations of interest shall be held for the payment of the said city debt, as it becomes due in each year, as aforesaid, and shall be used for no other purpose.

Approved April 13, 1880.

No. 15.**AN ORDINANCE PROVIDING FOR FREE TEXT-BOOKS.**

Be it ordained by the City Council of the City of Lowell, as follows :

That the School Committee are authorized to purchase text-books for use in the public schools, said text-books to be the property of the city or town, and to be loaned to pupils under such regulations as the School Committee may provide.

Approved Dec. 28, 1880.

No. 16.**AN ORDINANCE TO AMEND SECTION FOURTEEN OF CHAPTER THIRTY-THREE OF THE REVISED ORDINANCES OF THE CITY OF LOWELL.**

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. Section Fourteen of Chapter Thirty-three of the Revised Ordinances of the City of Lowell, is hereby amended by adding at the end of said section the following words : "except in such streets or ways as are designated by the Mayor and City Marshal."

Approved Jan. 27, 1881.

No. 17.**AN ORDINANCE TO AMEND SECTION SIX OF "AN ORDINANCE ESTABLISHING A FREE DISPENSARY FOR THE RELIEF OF THE SICK POOR OF LOWELL."**

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. Section Six of the Ordinance entitled "An Ordinance Establishing a Free Dispensary for the Relief of the Sick Poor of Lowell" is hereby amended by striking out the following words : "Excepting those of the City Physician."

Approved Feb. 8, 1881.

No. 18.**AN ORDINANCE FIXING THE TIME OF ESTABLISHING SALARIES.**

Be it ordained by the City Council of the City of Lowell, as follows :

That the salaries and compensation of City Officers for the remainder of the year 1882, after the thirty-first day of March in said year, shall be established in the month of November in the present year ; and in each year after the year 1881, the salaries and compensation of City Officers shall be established in the month of November for the year commencing on the first Monday of January next ensuing ; and no change of salary shall be made to take effect during the time for which said salary was established.

The salaries or compensation fixed for the payment of said officers, shall be in full for all services rendered by them by virtue of their offices ; and all sums of money received by them from any and every source in the discharge of said service during any quarter of the fiscal year, shall, at the expiration of said quarter, be by them paid over or accounted for to the City Treasurer.

An Ordinance entitled "An Ordinance fixing the time for establishing salaries," approved Dec. 27, 1877, is hereby repealed.

Approved Oct. 18, 1881.

No. 19.**AN ORDINANCE RELATING TO FURNISHING LABOR AND MATERIALS FOR INDIVIDUALS.**

Be it ordained by the City Council of the City of Lowell, as follows :

No flagging stones, edgestones, concrete, nor sidewalks of edgestones and cinders, shall hereafter be laid for any firm, corporation, or individual, where the expense of the labor and materials therefor is to be charged to said firm, corporation, or individual, unless the same shall first be ordered to be laid by the City Council.

Approved Oct. 18, 1881.

No. 20.**AN ORDINANCE RELATING TO AN EXTENSION OF THE FIRE DISTRICT.**

Be it ordained by the City Council of the City of Lowell, as follows :

That Section 2 of Chapter XV of the Ordinances of the City of Lowell, be hereby extended so as to include both sides of Merrimack

and Moody Streets west of the Merrimack Canal to Cabot Street, and all territory included within said boundaries; also to include both sides of said Cabot Street between said Merrimack Street and the Northern Canal.

Approved Dec. 13, 1881.

No. 21.

AN ORDINANCE AUTHORIZING THE MAYOR AND BOARD OF ALDERMEN TO REGULATE THE SALE OF NEWSPAPERS BY MINORS.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. The Mayor and Board of Aldermen may, from year to year, make terms and conditions to restrain the sale of newspapers by minors within the limits of the city; and when such terms and conditions are made, attend to the proper enforcement of the same, in accordance with the provisions of Chapter 68, Section 2, of the General Statutes of the Commonwealth.

Approved May 10, 1882.

No. 22.

AN ORDINANCE REGULATING THE RATE OF SPEED ACROSS A BRIDGE.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. No person shall ride or drive any beast of burden, carriage or draught, on the bridge recently constructed across Merrimack River, from a point near Stackpole street, to a point near First street, at a rate of speed faster than a walk.

SECT. 2. Any person who violates the provisions of this Ordinance shall forfeit and pay for every violation, a sum not exceeding twenty dollars.

Approved Aug. 28, 1882.

No. 23.

AN ORDINANCE TO AMEND CHAPTER ONE OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Section 4 of Chapter One of the Revised Ordinances be, and the same is hereby amended in the thirteenth line, by striking out

the words, "City of Lowell Water Loan Bonds," and inserting in place thereof the words, "any bonds issued by the city, or any abatements made by the Lowell Water Board."

Approved March 27, 1883.

No. 24.

AN ORDINANCE TO AMEND SECTION 2 OF CHAPTER SIX OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Section 2 of Chapter Six of the Revised Ordinances be and the same is hereby amended by striking out all before the word "shall" in the sixth line, and inserting instead the words: "A Board of Directors consisting of the Mayor and President of the Common Council for the time being, and six other citizens, one from each Ward, to be chosen in the month of January or February, 1884, or in case of vacancy at any other time in the same manner for the remainder of the unexpired term; two of said members to be chosen for the term of one year, two for the term of two years, and two for the term of three years; and thereafter, in one of the same months in each year, two members of said Board to be chosen for the term of three years, from the Wards represented by those whose term of office expires, by concurrent vote of both branches of the City Council." And by striking out all between the word "same" in the 13th line and the word "provided" in the 18th line.

Approved June 16, 1883.

No. 25.

AN ORDINANCE TO ESTABLISH A FREE READING ROOM.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. There shall be established in connection with the City Library, a "Free Reading Room," which shall be under the direction of the Directors of the City Library. They shall procure suitable rooms, and furnish the proper papers, periodicals, and other matter that may be necessary for the use of the patrons of the same, and manage the affairs as a part of the City Library.

SECT. 2. They shall establish such rules and regulations as may be necessary for the government of the reading room. Provided,

that any or all such rules and regulations may be amended by concurrent vote of the City Council.

SECT. 3. The expense connected with the establishment and maintenance of said reading room shall be paid from the appropriation for City Library.

SECT. 4. Such assistants as shall be needed in the reading room shall be chosen by the directors of the City Library.

Approved June 16, 1883.

No. 26.

AN ORDINANCE TO LICENSE AND NUMBER PERSONS TO COLLECT JUNK, OLD METALS, OR SECOND-HAND ARTICLES.

Be it ordained by the City Council of the City of Lowell, as follows:

SECTION 1. Every person owning or having the care, or driving of any truck, wagon, dray, cart, hand-cart, sleigh, sled, or hand-sled, or other vehicle, which shall be used in the City of Lowell for the collection of junk, old metals, or second-hand articles, shall, before using the same, be licensed by the Board of Aldermen, and all of said vehicles shall have placed upon the outside, and upon each side of the same, the number of the license, in plain, legible figures, of not less than three inches in size, and so that the same may be distinctly seen and read; and any person owning, having the care or driving of any of the vehicles above described, shall also wear a badge on his hat or cap, with the number of his license thereon, in brass or plated figures, of not less than one inch in size, and so placed that the number may be distinctly seen and read.

SECT. 2. Any person who shall collect junk, old metals, or second-hand articles without a truck, wagon, dray, cart, hand-cart, sleigh, sled, hand-sled, or other vehicle, shall before collecting the same be licensed by the Board of Aldermen, and shall wear a badge, as described in the preceding section of this Ordinance.

SECT. 3. All persons who buy or sell second-hand books or furniture, shall be exempt from the provisions of this Ordinance.

SECT. 4. All the provisions of this Ordinance shall be incorporated into each license which shall be granted under it.

SECT. 5. For every license so granted there shall be paid to the City Clerk the sum of one dollar for the use of the city.

SECT. 6. Any person who shall offend against any of the provisions of this Ordinance shall forfeit and pay for each offence a sum not exceeding twenty dollars.

Approved June 16, 1883.

No. 27.**AN ORDINANCE TO AMEND CHAPTER TWENTY-THREE OF REVISED ORDINANCES.**

Be it ordained by the City Council of the City of Lowell, as follows:

That Section 1 of Chapter Twenty-three of the Revised Ordinances be, and the same is, hereby amended in paragraph 2 by striking out all contained in the first three lines, and the first three words in the fourth line of said paragraph, and inserting instead the words, "There shall be chosen in the month of January or February, in the year 1884, by concurrent vote of both branches of the City Council, three Assessors of Taxes to serve for the term of one year, and three to serve for the term of two years; one from each ward; and thereafter in the month of January or February of each year there shall be chosen in the same manner, three assessors of taxes to serve for the term of two years, from the wards represented by those whose term of office expires, — said assessors to be sworn to the faithful performance of their duties. In case of a vacancy in the board of assessors, from any cause, the City Council shall fill said vacancy by electing a member to serve for the remainder of the unexpired term."

Approved June 16, 1883.

SPECIAL ACTS

OF THE

LEGISLATURE OF 1882,

ACCEPTED BY THE

CITY COUNCIL OF LOWELL.

SPECIAL ACTS OF THE LEGISLATURE OF 1882.

[CHAPTER 56.]

COMMONWEALTH OF MASSACHUSETTS.

In the Year One Thousand Eight Hundred and Eighty-two.

AN ACT TO AUTHORIZE THE PROPRIETORS OF THE LOCKS AND
CANALS ON MERRIMACK RIVER TO DISCONTINUE A PART OF
THE "LOWER FREE LANDING" IN THE CITY OF LOWELL.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows :

SECTION 1. The second section of Chapter one hundred and thirty-two, of the Acts of the year eighteen hundred and thirty-five, being "An Act to regulate the toll on Patucket Canal," is hereby so amended that the Proprietors of the Locks and Canals on Merrimack River shall not be required by force thereof hereafter to maintain any landing place below the "Swamp Locks" in the city of Lowell, except that portion of the landing place known as the "Lower Landing," which is described as follows, to wit : Beginning at the southeasterly corner of land of the city of Lowell, and thence running southwesterly on said land seventy-five feet ; thence at a right angle, southeasterly to Patucket Canal ; thence northeasterly on said canal seventy-five feet, and thence at a right angle, northwesterly to said land of the city of Lowell and the point of beginning. But nothing in this act shall release said corporation from any duty or obligation which it is now under to maintain as a free landing that portion of said "Lower Landing," which is above described, nor impose any duty, obligation, or liability not imposed by the first named Act.

SECT. 2. This act shall take effect when assented to by the city council of the city of Lowell, by concurrent vote of the two branches thereof.

Approved by the Governor, March 11, 1882.

Assented to by the City Council, June, 1882.

[CHAPTER 89.]

COMMONWEALTH OF MASSACHUSETTS.

In the Year One Thousand Eight Hundred and Eighty-two.

AN ACT TO AUTHORIZE THE DEFINING AND IMPROVEMENT OF
THE CHANNEL OF MERRIMACK RIVER IN THE CITY OF LOWELL.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

SECTION 1. To facilitate the construction and for the greater safety and convenience of highways and bridges across the Merrimack River, and for the purpose of improving the navigation and water power of said river, the city of Lowell, the Proprietors of the Locks and Canals on Merrimack River, the Lawrence Manufacturing Company, the Merrimack Manufacturing Company, the Boott Cotton Mills, and the Massachusetts Cotton Mills, are authorized and empowered to alter, straighten, deepen, remove obstructions from, and by their unanimous agreement define, establish, and fix the boundaries of the bed and channel of said river within said city, between the mouth of Beaver Brook and the easterly line of the public landing on the northerly side of said river, and the mouth of Concord River and westerly line of the public landing on the southerly side of said Merrimack River. Whenever said boundaries shall be so defined and fixed, the owners of lands abutting on said Merrimack River may construct and maintain walls and embankments thereon, and fill up, occupy, and improve such lands to such boundaries. The city of Lowell, for the purpose of constructing and maintaining highways, townways, and bridges, which heretofore have been or hereafter shall be duly laid out or established to or across said Merrimack River, may construct and maintain abutments and embankments therefor to said boundaries, and suitable piers within the bed or channel so defined and fixed as herein authorized. All such

walls, abutments, embankments, or other works constructed or maintained under authority of this Act, shall have suitable openings or culverts therein, to permit the flowing into said Merrimack River of all water-courses, sewers, and drains now lawfully emptying into said river within the bounds so described.

SECT. 2. Before any wall, abutment, embankment, or other work shall be constructed under authority of this Act, said city and corporations shall cause a certificate setting forth and describing the boundaries of said bed and channel, defined and fixed as herein authorized, signed by the Mayor of said city and the President or Treasurer of each of said corporations, to be recorded in the registry of deeds for the northern district of the County of Middlesex, and also cause a map, delineating such boundaries upon a scale of not less than one hundred feet to the inch, signed in like manner as said certificate, to be filed in said registry.

SECT. 3. Any person whose property may be damaged by the exercise or carrying into effect of the powers or rights conferred by the first section of this Act, except by the construction or maintenance of piers in said bed or channel, may have the amount of such damage determined, and may recover the same of said city and corporations, in the manner provided in chapter one hundred and twelve of the Public Statutes, for the estimation and recovery of damages occasioned by the laying out, construction, and maintenance of railroads; *provided*, the application for the estimation of such damages shall be made within three years after the recording of the certificate and filing of the plan required by section two; but no person shall be entitled to recover damages under this Act on account of any act or thing which said city or corporations, or any or either of them, would have a right to do without liability to such person for damages occasioned thereby, if this Act had not been passed. In estimating the damages, allowance by way of set-off shall be made for any benefit to the property of such person by any deepening, widening, or straightening of the bed or channel of said Merrimack River, or removing of obstructions therefrom, by said city and corporations or any of them, as well as for any other benefit that shall have resulted to the property of such person by the carrying into effect of any of the powers granted by this Act after this Act shall take effect and before the final determination of such damages.

SECT. 4. All expenses that shall be incurred by said city and corporations, or either of them, in carrying into effect and exercising the powers and rights granted by this Act, and in ascertaining and

satisfying the damages thereby to property of any person, shall be fixed by said city and corporations, respectively, in such proportions as shall be agreed between them. Said city and corporations may make such contracts between themselves for carrying into effect the powers hereby granted, and the prevention and removal of obstructions in said Merrimack River, and payment of the expenses thereof, as they may deem expedient; and the performance and observance thereof by them respectively may be enforced, by suitable proceedings at law or in equity, by the Supreme Judicial Court; *provided*, such contract shall be in writing and recorded in the same registry and at the same time as the certificate required by section two.

SECT. 5. This Act shall not impair any right which the city of Lowell now has to lay out, construct, or maintain any highway, townway, or bridge to or across said Merrimack River; nor shall it affect the right or remedy of any person for damage occasioned by the laying out, construction, or maintenance of any highway, townway, or bridge, except for damages occasioned by the construction or maintenance of abutments or embankments therefor under authority of this Act, and for which remedy is herein specially provided.

SECT. 6. This Act shall be void unless accepted by the city council of said city, and by each of said corporations by vote of their respective boards of directors, within six months after the passage hereof.

Approved by the Governor, March 17, 1882.

Accepted by the City Council, April 29, 1882.

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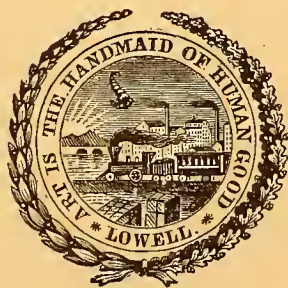
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FIFTY-SEVENTH
ANNUAL REPORT
OF THE
SCHOOL COMMITTEE
OF THE
CITY OF LOWELL, MASS.,
TOGETHER WITH THE
NINETEENTH ANNUAL REPORT
OF THE
SUPERINTENDENT OF PUBLIC SCHOOLS,
REPORTS ON DRAWING, EVENING SCHOOLS, AND MUSIC,
AND AN APPENDIX.

1882.



LOWELL, MASS.:
VOX POPULI PRESS: HUSE, GOODWIN & CO.
1883.

CITY OF LOWELL.

IN SCHOOL COMMITTEE,

Dec. 30, 1882.

THE Chairman of the Committee on Reports, SOLON W. STEVENS, presented a report this day, which was unanimously adopted as the Report of the School Committee for 1882.

The Superintendent of Schools, and Chairmen of the Standing Committees on Evening Schools, on Penmanship and Drawing, and on Music, at the same time presented reports, which were accepted and ordered to be printed with the Report of the School Committee.

CHARLES MORRILL, *Secretary.*

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1882.

GEORGE RUNELS, Chairman.
 SOLON W. STEVENS, Vice Chairman.
 CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

GEORGE RUNELS, Mayor	} <i>Ex Officiis.</i>
WILLIAM N. OSGOOD, President Common Council .	
Ward 1—TIMOTHY H. BRENNAN	Term expires 1882
JOHN A. SMITH	“ “ 1883
“ 2—DANIEL P. GALLOUPE	“ “ 1882
GEORGE E. STANLEY	“ “ 1883
“ 3—JOHN J. GREEN	“ “ 1882
MICHAEL SEXTON	“ “ 1883
“ 4—SOLON W. STEVENS	“ “ 1882
FRED WOODIES	“ “ 1883
“ 5—GEORGE C. OSGOOD	“ “ 1882
GEORGE W. BATCHELDER	“ “ 1883
“ 6—LEONARD HUNTRESS, JR.	“ “ 1882
JOHN J. PICKMAN	“ “ 1883

STANDING COMMITTEES.

ON ACCOUNTS—The Mayor, Messrs. Osgood, Brennan, Smith, Woodies.
 ON SCHOOL-HOUSES AND HYGIENE—Messrs. Brennan, Huntress, Galloupe,
 Sexton, Batchelder.
 ON TEACHERS—Messrs. Galloupe, Stevens, Green, Pickman, Woodies.

ON REPORTS AND PRINTING — Messrs. Stevens, Osgood, Green, Smith, Huntress.

ON BOOKS AND SUPPLIES — Messrs. Stevens, Smith, Galloupe, Sexton, Woodies, Pickman.

ON SALARIES — The Mayor, Messrs. Huntress, Green, Stanley, Galloupe.

ON PENMANSHIP AND DRAWING — Messrs. Huntress, Sexton, Green, Batchelder, Pickman.

ON MUSIC — Messrs. Stevens, Osgood, Batchelder, Stanley, Woodies.

ON EVENING SCHOOLS — Messrs. Osgood, Brennan, Stanley, Smith, Sexton.

ON RULES AND REGULATIONS — Messrs. Stanley, Brennan, Osgood, Batchelder, Pickman.

ASSIGNMENT OF SCHOOLS.

THE MAYOR — High and Reform Schools.

PREST. OSGOOD — Reform School, Mixed No. 1.

MR. BRENNAN — High, Mann, Primaries 44, 22, 41, 43, 11, 26, 32, 78.

MR. SMITH — Primaries 8, 29, 12, 23, 69, 10, 63, 70, 73.

MR. GALLOUPE — High, Varnum, Primaries 46, 47, 49, 75.

MR. STANLEY — Green, Primaries 1, 3, 48, 55, 60, 61.

MR. GREEN — High, Reform, Colburn, Primaries 33, 56, 19, 39, 18, 53.

MR. SEXTON — Primaries 7, 21, 20, 57, 13, 68, 72, 64, 66, 59, 71.

MR. STEVENS — High, Edson, Primaries 24, 28, 77.

MR. WOODIES — Highland, Primaries 17, 34, 50, 76, 31, Intermediate 1.

MR. OSGOOD — Reform, Bartlett, Primary 58, Mixed No. 2.

MR. BATCHELDER — High, Reform, Primaries 2, 65, 40, 45, 36, 38, 74, 4, 54, 62, 67.

MR. HUNTRESS — High, Primaries 14, 25, 16, 37, 9, 51, 5, 6, 15, 30, 27, 42.

MR. PICKMAN — Moody, Primaries 35, 52.

CHARLES MORRILL, Superintendent of Public Schools.

Office in the City Government Building.

OFFICE HOURS. — One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

TRUANT COMMISSIONERS.

BICKFORD LANG.

WILLIAM H. BERMINGHAM.

Office in City Government Building.

ORGANIZATION
OF THE
SCHOOL COMMITTEE, 1883.

JOHN J. DONOVAN, Chairman.
SOLON W. STEVENS, Vice Chairman.
CHARLES MORRILL, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

JOHN J. DONOVAN, Mayor	} <i>Ex Officiis.</i>	
EDWARD B. PEIRCE, President Common Council		
Ward 1—JOHN A. SMITH		Term expires 1883
STEPHEN J. JOHNSON	" "	1884
" 2—GEORGE E. STANLEY	" "	1883
GREENLEAF C. BROCK	" "	1884
" 3—MICHAEL SEXTON	" "	1883
JAMES J. SULLIVAN	" "	1884
" 4—FRED WOODIES	" "	1883
SOLON W. STEVENS	" "	1884
" 5—GEORGE W. BATCHELDER	" "	1883
HERMON J. SMITH	" "	1884
" 6—JOHN J. PICKMAN	" "	1883
GEORGE E. PINKHAM	" "	1884

STANDING COMMITTEES.

- ON ACCOUNTS—The Mayor, Messrs. Peirce, J. A. Smith, Woodies, Johnson.
- ON SCHOOL-HOUSES AND HYGIENE—Messrs. Batchelder, Pinkham, Johnson, H. J. Smith, Sullivan.
- ON TEACHERS—Messrs. Woodies, Stevens, Pickman, Sexton, J. A. Smith.
- ON REPORTS AND PRINTING—Messrs. Pickman, Stevens, Pinkham, Sullivan, Brock.

ON BOOKS AND SUPPLIES—Messrs. Stevens, J. A. Smith, Pickman, Sexton, Woodies, Stanley.

ON SALARIES—The Mayor, Messrs. Stanley, H. J. Smith, Brock, Sullivan.

ON PENMANSHIP AND DRAWING—Messrs. Sexton, Batchelder, Pinkham, Johnson, H. J. Smith.

ON MUSIC—Messrs. Stevens, Batchelder, Woodies, H. J. Smith, Brock.

ON EVENING SCHOOLS—Messrs. J. A. Smith, Stanley, Sexton, Johnson, Pinkham.

ON RULES AND REGULATIONS—Messrs. Stanley, Batchelder, Pinkham, Sullivan, Brock.

SPECIAL COMMITTEE ON PAROCHIAL SCHOOLS—The Mayor, Messrs. Stevens, H. J. Smith, Sullivan, J. A. Smith.

ASSIGNMENT OF SCHOOLS.

THE MAYOR—High and Reform Schools.

PREST. PEIRCE—Reform School, Mixed No. 1.

MR. SMITH—High, Green, Primaries 10, 63, 36, 38, 74.

MR. JOHNSON—Mann, Primaries 44, 22, 41, 8, 29, 12, 23, 69.

MR. STANLEY—High, Varnum, Primaries 1, 3, 46.

MR. BROCK—Primaries 47, 75, 49, 48, 55, 60, 61, 19, 39, 26, 11, 43.

MR. SEXTON—Reform, Primaries 7, 21, 20, 57, 13, 68, 72, 66, 59, 71.

MR. SULLIVAN—High, Colburn, Primaries 64, 33, 56, 27, 42, 18, 53.

MR. WOODIES—Highland, Primaries 17, 34, 50, 76, 62, 67, 79.

MR. STEVENS—High, Edson, Primaries 24, 28, 77.

MR. BATCHELDER—High, Bartlett, Primaries 58, 81, Mixed No. 2.

MR. H. J. SMITH—Reform, Primaries 2, 65, 40, 45, 4, 54, 32, 78, 70, 73, 31, 80.

MR. PICKMAN—High, Moody, Primaries 35, 52.

MR. PINKHAM—High, Primaries 14, 25, 16, 9, 51, 5, 6, 15, 30.

HIGH SCHOOL—The Mayor, Messrs. J. A. Smith, Stanley, Sullivan, Stevens, Batchelder, Pickman, Pinkham.

REFORM SCHOOL—The Mayor, Messrs. Peirce, Sexton, H. J. Smith.

CHARLES MORRILL, Superintendent of Public Schools.

Office in City Government Building.

OFFICE HOURS.—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

TRUANT COMMISSIONERS.

BICKFORD LANG.

WILLIAM H. BERMINGHAM.

Office in City Government Building.

REPORTS.

REPORT OF THE SCHOOL COMMITTEE.

IN accordance with an established custom, the preparation of the Annual Report of the School Committee, for the current year, has been entrusted to a portion of its members, whose duty it is, in obedience to the requirement of the General Statutes, to present a detailed report, which "shall contain such statements and suggestions, in relation to the Schools, as the Committee deem necessary or proper, to promote the interests thereof." The publicity of the meetings of the Board, the elaborate accounts of its proceedings and discussions in the public prints, the frequent criticisms of its acts in the editorial and correspondence columns of the newspapers, would seem to render this report of the Committee a superfluous task, were it not that the foundation principle of all healthful public sentiment rests in a great degree in demanding from those entrusted with the management of important affairs a full and just account of their stewardship. In this way, both representative and constituent may be guarded from

the evils of unfair criticism and wilful misrepresentation.

Unusual interest apparently prevails throughout the community with regard to our public schools. The expense necessary to their maintenance, the yearly increasing number of children who become pupils, the changes in methods of teaching, the widely circulated reports of discussions relative to educational matters among professional teachers, and the gossip of the children themselves in the household, have quickened public sentiment, transformed indifference into zeal, and led the people unconsciously, by a process itself educational, into sincerity of belief of the necessity of vigilance and scrutiny relative to the methods and the results of the prevalent popular system of the education of our children and youth. Opinions may differ as to the merits and defects of methods and agencies used and employed for the accomplishment of the design for which the common schools were established; but, beneath this variance of belief, there is a fixed determination that the children of a Massachusetts community, at least, shall have nothing less than the best modes of instruction, the best sources of information, and the best forms of mental discipline. "Our system of education," as it has been forcibly expressed, "is not to be compared with those of other states or

countries, merely to determine whether it may be a little more, or a little less, perfect than they; but it is to be contrasted with our highest ideas of perfection itself, and then the pain of the contrast is to be assuaged by improving it forthwith and continually."

There has recently been manifested in certain quarters a feeling of dissatisfaction with our public school system, not only in regard to its aims, but also to its methods and to its results. Critics seem anxious to exercise their faculties, not so much apparently for the purpose of improving, as of tearing down an institution which New England has always justly regarded a most important factor in the culture and intellectual progress of her people. In the educational arena there are two parties engaged in controversy. On the one side, there are the adherents of a vague, indescribable thing, called the "Quincy system," following the leadership of their brilliant, aristocratic commander, and bearing aloft their banner, on which the three R's are written in purple and in gold. On the other side, there are hosts of experienced educators, marshalled under the ensign raised by Mr. Horace Mann many years ago, on which is written the motto, "The public school made good enough for the best, and free to all." It is not our purpose to participate in the discussion of the question at issue. The Lowell schools are a part of

the general Massachusetts system. They have their faults, or rather their imperfections, but they are in the process of development; they are in the line of improvement continually; as fast as possible, they are striving to enhance what is good in themselves, and to reform what is bad. They aim to impart to the children of every rank or condition in society that kind of training which will ripen into a solid education, which is useful and indispensable to self-governing and self-reliant citizenship. And before we shall be ready to believe that the public schools are about to disintegrate, and become as nought, or that the system itself is a "failure," we shall ask for stronger proofs than the verbose elucidations of a New York amateur magazine writer, or the revised mediæval theories of a high-born *doctrinaire*.

Inasmuch as the suggestions, and the carefully prepared table of statistics, contained in the Superintendent's report, will supply the necessary details in reference to the various grades of schools, including the Reform School, we shall only allude in a general way to some of the most prominent features of our educational work, which may properly become subjects for the consideration of this Board.

The Primary Schools are mostly in good condition, so far as the responsibilities of teacher and pupil are concerned. Of course, there are various grades

of excellence, because there is a variety of circumstances under which different degrees of ability are manifested. Many schools of this grade are too crowded. In some, there are upwards of fifty, and in others, between eighty-five and ninety, scholars. While this condition of things lasts, satisfactory results ought not to be expected, and cannot be obtained. No teacher can do justice to so large a number of little ones, no matter what the rate of her ability, the endurance of her patience, or the sweetness of her disposition. Under such circumstances, she may possibly *keep* school; she cannot successfully *teach* school. In this connection it is proper to state, that in some instances the sanitary arrangements are in a condition that demands attention and improvement. It is to be hoped that the authorities will see the importance of building commodious, convenient, and inexpensive Primary school-houses, when they are imperatively needed, without feeling that money is otherwise than judiciously expended; for the blemishes and the faults in our school system, to which impartial criticism is not blind, have for the greater part their origin, at present, in our deficiency in school-house facilities. We fear our people do not always consider the importance of having first-rate conditions of things in Primary-school instruction. It is a mistake to suppose

that an indifferent teacher will answer well enough here; it is erroneous to think that it matters but little, either as to substance or method of instruction, provided the care of the little ones is daily transferred for a few hours from the home to the school-house; and it becomes a subject of personal interest, to parents, at least, how many of these little ones, representing every variety of intelligence and cleanliness, shall be daily huddled together under conditions often more conducive to generating disease and vice than to receiving impressions which shall start them upward in a life-long and useful career. Those persons whose business it is to start these little beginners in the mysterious paths of knowledge, to help their tiny feet over seemingly insurmountable obstacles, to sympathize in their little sorrows, to mingle in their childish joys, to awaken youthful ambitions, and to inspire them, if possible, with a passion for learning more and more of truth and beauty, are doing a work which rises in importance above every other step in the educational progress of the child. No amount of patience, no amount of subsequent toil, can atone for injurious results of negligence or carelessness in Primary instruction; and, next to the influence of parents, in point of significance, comes the influence of the conscientious and able teacher, during the years of childhood, since the im-

pressions received then are fixed in memory, to remain there amid the changes and varied experience of maturity and declining years.

Taking into consideration many circumstances at present unavoidable, the work done in the Grammar Schools is very creditable. These schools are suffering in some instances from being crowded in the lower rooms, and they are all prevented, more or less, from doing their best, by being obliged to do more work than can be thoroughly accomplished in the given amount of time. The question is sometimes asked whether the Grammar Schools strive to teach boys and girls the things they ought to know, or whether they aim to qualify them for admission to the High School. It is an instance of witless wit, if it be implied that the former is not embraced in the latter. Both things are striven for in the same endeavor. They are simply parts of one whole. In other words, we maintain that from the moment the child enters the Primary School, until he graduates from the High School, he is in the line of receiving that mental training, and of acquiring that intellectual power, which will best fit him for the duties of intelligent citizenship and of practical life. The theory is, that every scholar shall have the benefit of a High-school education if he desires it, provided he is qualified

for it; and if circumstances are such that this privilege is denied on account of the lack of school facilities, such facilities should be furnished. At all events, the height of the standard of requirement ought not to be measured solely by the cubical dimensions of the High-school building. We admit there are faults and deficiencies in our system, but these we are trying to remedy as fast as possible. It is alleged, however, that our public education is becoming more ornamental than useful. Self-appointed censors are repeatedly asserting, that instead of fitting our youth to earn their bread, and to make themselves serviceable as working-men and working-women, we are making them scholars, artists, dreamers, and visionaries, shiftless, helpless burdens, rather than energetic, competent members of society. It all depends upon what may be regarded as a *useful* education. A disciplined mind is quite as worthy an object of attainment as a well-trained hand. But our schools are not workshops or kitchens; we do not provide benches and tools; we do not teach the mechanical trades, and the technicalities of handicraft. Industrial education, if ever it is given, and we hope it will be, should be provided on a broader plan. The mechanical training and the cookery taught in the common schools would be of but little practical advantage

in the household or the mill. Industrial schools should be established on an independent basis, and not as appendages to the Grammar Schools. We hope the time is not far distant when Lowell shall have an Institute of Technology of her own.

By circumstances which they cannot control, the teachers are often obliged to advance scholars faster than is judicious and wise; hence the cramming, hence the unsatisfactory result. How to obviate this and collateral difficulties is a problem for the wisdom of our successors to solve. More school-room capacity, smaller schools, and more time to do the specified amount of work, are some of the points which will require future consideration.

Provision should be made whereby the first class, when it has completed its prescribed course of study, should remain one year more in the Grammar School as an advanced class. During this time they should thoroughly review the regular studies, and make a beginning at least in Algebra, Geometry, English Literature, and some other studies now belonging to the curriculum of the High School. Or if this be impracticable, let there be added to the High School an intermediate or preparatory class, composed of those who have, in a manner satisfactory to the authorities, finished the Grammar-school course. Those who go hence to

the High School will be the better prepared, and those who pass at once to the active duties of life will be the better fitted for their particular pursuits. The influence of such a class would prove a stimulus in the right direction along the whole line of the series, and both the High and Grammar Schools would thus become seminaries of increased positive and scholarly character. One of the most troublesome subjects brought to the attention of the Board during the past year, was the adoption of some sufficiently critical and equitable standard for the promotion, or rather examination, of applicants for the High School. But by practice in accordance with the plan just mentioned, we think much of the difficulty would be obviated. The fifty-per-cent. clause relative to Arithmetic and Grammar, is doubtless a step in the right direction towards the solution of this perplexing problem, but there is need of at least one more trial of it before positive decision is pronounced. Admitting the importance of these two studies always, we must guard against excessive training in this regard, to the sacrifice of other things very nearly if not quite as essential. It is plain that in the near future some different method from that now practised will of necessity be adopted, relative to ascertaining the fitness of applicants for admission to the

High School. Whether the desired results will be best obtained by the establishment of an advanced Grammar-school class, or by the fixing of an Intermediate School, or by the establishment of two High Schools, one for boys and one for girls, or by the trial of some unmentioned method, must be determined by the mature judgment and careful attention of those entrusted with the future management of affairs.

The High School has continued to do its work during the year in a creditable manner. Whenever we wish to make an estimate of the standing of this school, we are obliged to make an allowance for the influx yearly of a great number of scholars in nearly every degree of preparation. When, in the coming time, the evils growing out of this shall be removed, our High School will stand on an equality with any in the land. Although a very small proportion of our scholars reaches its doors, we regard the High School as indispensable and invaluable in our educational system. Its courses, both the English and the classical, are comprehensive, its training thorough, and the education given its graduates will entitle them to consideration as scholarly young ladies and gentlemen in any community; while those who go with certificates, to apply for admission

to college, are not only admitted, but often without conditions.

The introduction of military drill as an exercise for the boys has proved both popular and beneficial. Its results are seen in the cultivation of an erect, soldier-like bearing, in a courteous and manly demeanor, and in a more symmetrical physical development. The public have witnessed, with much satisfaction and enthusiasm, the "drill" of the Battalion, and have expressed their cordial congratulations on the attainment of so much precision in comparatively so short a period of discipline. Much credit is due to Captain Hanscom for his fidelity and gentlemanly manner in the discharge of his duties as instructor in this special department.

We desire in this connection to suggest the inquiry, whether it would not be the part of wisdom to introduce a corresponding system of gymnastic exercises into the *female* department of the High School, which shall be both healthful and pleasurable. It would seem that some such practice might prove not only interesting, but very beneficial to the physical well-being of the scholars. The arguments in favor of military drill as a recreative and invigorating exercise for the boys, will apply with equal force to the propriety of providing some systematic and healthful physical exercise for the girls.

The "Free Text-book" system has now been in operation about eighteen months. It must still be regarded as an experiment, but as an experiment that seems to be working well. The arrangements for the distribution of books, the plans for keeping an account of the same, by correspondence of orders and receipts between the teachers and the Superintendent, as well as other details which gave rise to perplexity on the introduction of this system, have now been formulated and simplified, so that the experiment may be considered as receiving a fair trial, the success of which the future must determine. Additional responsibilities are imposed upon the teachers, that no books may be lost, defaced, or destroyed by negligence, carelessness, or ill-usage; and to this end, further provision should be made in all the schools for the preservation of books both during term-time and vacation. Moreover, the scholars should be made to feel that books are not purchased by the city to be handled by them in a slovenly manner, but that they are loaned to them as tools and instruments for the upbuilding of the character of the future citizens of a Republic, whose prominent feature is the gratuitous education of the children of both its wealthy and its humble poor, alike on the same thorough and generous plan.

Our teachers for the greater part seem interested

in their work, are desirous of obtaining new ideas relative to their profession, and are governed by a higher motive than simple contentment with the daily routine of mechanical drudgery. Teachers thus stimulated will necessarily add to their intellectual growth, thus making their services more valuable to the community every year. Those not thus actuated will unconsciously, but inevitably, drift towards incompetency. Having become merely automatic in their movements, simply keepers of school rather than teachers, such are always painfully surprised at suggestions relative to the probable acceptance of their resignations, and are grieved at the thought which points to the possible completion of their direct usefulness. Should contingencies of this nature arise, it is plain that duty should not be sacrificed to sentiment, but that such action be taken as will produce the most salutary results, "with malice towards none, and with charity for all." Teaching is causing another to know. Education is something more than is implied in the stale comparisons of making impressions upon wax, or of pouring water into an empty vessel, etc. The mind of a child is indeed pliable, and must be impressed; it is empty, and must be filled; but it is also in itself a vital power, and permanent influence upon it involves the exercise of its own deathless activities. Knowl-

edge must not only be imparted, but the attention must be aroused to receive it, the memory must be strengthened to retain it; and so education becomes a process of mental growth, stimulated and aided by the personal, living agency of other minds. Herein rests the force of example. This is to be particularly noticed in the formation of the habit of speaking and writing the English language correctly. If children at school, or elsewhere, are so unfortunate as to hear not unfrequently from older persons such expressions as, "Be yer goin' to-morrow?" and "I seen those kind," it is reasonable to expect they will adopt these forms of expression as their own. Too much care cannot be exercised in this respect; for if there is one thing of supreme importance in the secular education of children, it is that they be trained, not only to speak grammatically, but also to pronounce correctly, and to use words with accuracy. Even if provincialisms prevail, if the New-Englander prefers to "guess" instead of to think, and the Westerner chooses to "reckon" rather than to suspect, and the Southerner is determined to "calculate" and not to imagine, teachers especially should exert a direct and powerful influence towards removing whatever plausible reason there may be for the statement that the English people speak the English language more correctly than Americans. We are gratified to notice a de-

cided improvement in this branch of instruction in our schools during the past few years. The introduction of the "Knox-Whitney Elementary Lessons in English" was a successful move towards more effective instruction in the art of the proper use of language in the expression of thought. It might be supposed, however, from remarks often publicly made by people evidently unacquainted with the facts in the case, that "composition," and its collateral studies, are matters either very indifferently taught, or almost wholly ignored in our public schools. The limits of this Report forbid such discussion as this subject demands; but perhaps it may be proper to state, that the study of "Elementary Lessons in English" is begun in the sixth class of the Grammar School, and continued through the fifth, fourth, third, and second classes; that in the last year of the course, technical Grammar, including its classifications and nomenclature, is taught; that during all these years the scholars are required to compose little exercises, and that this study is not only continued in the High School, but that English Composition is required throughout, both in the English and the classical course. The object aimed at is the development of the habit of correct written and oral expression on themes, in letter-writing, and in habitual conversation. The child is taught to write the names of

things in their singular and plural forms, to put descriptive words before such names; then, as the mind grows stronger, to use pronouns, and words expressing the different relations of things; until he is mature enough to grapple with the difficulties of technical Grammar, to frame more elaborate sentences, and finally to "write compositions." In accordance with the directions given in *The National* and *The Franklin Composition Books*, pupils are taught to write their thoughts, in simple language, upon such subjects as they thoroughly understand, or on which they can, by reading and talking, acquire the desired information. Sometimes they are directed to copy some little story,—for instance, the story of "Robert Bruce and the Spider,"—and to tell why such words begin with small letters, and why such with capitals, what mark is placed at the end of a sentence, and to answer other similar questions. We do not attempt any "Egyptian task---bricks without straw," by asking a child to write upon "dry, ethical, metaphysical, or abstract themes," which he cannot comprehend. He is required to write as well as possible what he knows about things which he understands, to express his ideas in his own way, by the use of simple words, and to avoid ambiguous, polysyllabic phrases,—a suggestion, by the way, not always

remembered by older people. When a little girl, in writing about cows, expressed her ideas as follows: "A cow is an animal with four legs on the under side, one on each corner. The tail is longer than the legs, but it's not used to stand on. A dog was hooked once. 'She tossed the dog that worried the cat that killed the rat.' Milkmen sell milk to buy their little girls dresses, which they put water in and chalk,"—her meaning was perfectly clear. But when, as the story goes, an ex-Secretary of State, on being asked at a dinner which part of a turkey he preferred, answered, "that it was quite inconsequential to one of his recognized abstemiousness and supersentative stomachic nervation whether he was tendered an infinitesimal portion of the opaque nutriment of the nether extremities, the superior fraction of a pinion, or a snowy cleavage from the cardiac region," it is not a matter of surprise to learn that the bewildered carver politely requested his distinguished guest to help himself. In this, as in nearly every branch of our systematized course of study, better work might be done if it were possible to have more time allotted to it. It is gratifying to be able to state that improvement is observable year by year. The books which are used, and the method which is followed, are endorsed by the highest literary authority, and by the experi-

ence of the best schools in the country ; and we believe that upon examination any candid inquirer would pronounce the results encouraging. Pretentious theorists may stigmatize our system as a "blundering and happy-go-lucky style of tuition" ; but such hyphenized statements, while characterized by flippancy, betray inexcusable ignorance relative to the subject under review.

The practice of Object-teaching observed in the lower grades of schools is especially praiseworthy. In early childhood most ideas are acquired through the senses of sight and touch. When the child is first sent to school, it is the wisest plan to continue the work in systematic accordance with Nature's method. The teacher holds before her class a flower, a leaf, a box, a piece of wood ; she bids their bright eyes look at it ; she describes in simple language the properties of the object ; she questions them about it, stimulates their curiosity, and thus awakens a healthful emulation among her little audience, not only to know more, but to tell intelligently what they already know about what they may have seen. Then perhaps the older ones are required to draw the object, or to write a description of it on their slates. Short daily exercises of this kind, under the guidance of a discreet, conscientious teacher, are of unspeakable value.

And here particular praise should be given very many of the teachers for their patient efforts in teaching these little children to write. Some of us have been surprised at the excellence of the work of the little primarians in this direction. We quote the following from the last Annual Report of the Superintendent of Public Schools in Boston, for the reason that it shows this matter is regarded of great importance there, and because the ideas therein expressed are in the main applicable to many of our schools:—

“No feature of the Primary-school work has interested me more than the use now made of the pencil by the children in expressing their thoughts in writing. Composition—talking with the pencil, as the children would call it—is now a part of their daily work. A few years ago such a thing as written composition was unheard of in our Primary Schools. It may have been practised here and there by an enterprising teacher; but, if so, it was practised without attracting attention. Writing then was merely a mechanical copying of set forms, which, to the child at least, had no meaning. Writing now is used by the children as a means of conveying their thoughts to others; and in using it they exhibit all the pleasurable excitement which the consciousness of new power is apt to produce.

Oral and written expression of thought — reading and writing — now go hand in hand together from the very start. Printed words are no longer the mere symbols of sounds to be uttered; they are also and chiefly the signs of ideas. Written words are no longer dead and empty forms to be copied; they are things full of life and meaning, — quick messengers to convey thought from mind to mind.”

Perhaps there is no phase of school affairs in which greater improvement has been made manifest during the past few years, than in the successful combination of oral and written instruction. There is need, however, of more general adoption of the oral method. It is most successfully practised in some of the schools; but there are too many instances of what has been aptly termed “that slavish and exclusive fidelity to text-books, that is the bane of American Public Instruction.” Class recitation implies something more than putting questions from the book, with the expectation of receiving verbally correct answers. “To teach intelligently, and so as to produce the best results,” is a far different thing from simply hearing a class recite. It means the presenting of the truth so as to excite a love for it, to stimulate thought, and to produce mental growth. Successful oral teaching does not consist in the attempt of

the instructor to do the work for the pupil, it does not rest simply in making school-work perfectly easy and delightful, but it seeks to prepare the way for the pupil to do the work for himself, and by himself, the result of which is knowledge and development. We are not prepared, however, to indorse the statements of those who tell us, for instance, to "burn all the spelling-books," and to banish text-books generally. Inquiry and observation have convinced us that this is not wholesome advice. The judicious use of, instead of "the slavish and exclusive fidelity" to, text-books is the object of our desire. As Mr. Secretary Dickinson says, "We need to have our methods of teaching conform more fully to the laws of mental activity and mental growth. We need also to have impressed upon our minds a more exalted notion of what the results of school-life should be."

In a letter written to the Secretary of the Board of Education relative to public-school matters, Col. Thomas Wentworth Higginson makes the following statements: "The ordinary charge made against our public-school system by critics, viz. that it is unpractical, and does not prepare pupils for the ordinary duties of life, appears to me quite unfounded. I think, after a great deal of experience on school committees in different towns and cities,

that our system, on the whole, works well, and needs only to be sustained and developed. . . . The chief defect of our school system seems to me to lie in an excess of routine and technicality, a thing very difficult to remove in a highly-graded system. All school systems bring their own evils; for instance, gradation is essential, but it is then necessary to find means to remove the evil of formalism which springs from gradation. Again, written examinations, now so generally introduced, are of great value; but, having introduced them, we have now to guard against their excess." He then states that in his opinion the only remedy for these, and other existing evils, is to be found "in elevating the standard of teaching, and of school inspection," and also "in having better teachers." Without implying disrespect to any parties in interest, it is fair to say, that a higher standard of teaching generally, and, in certain quarters, the service of better teachers in particular, are very desirable conditions in this community. For this reason we are glad to notice that this weighty subject is occupying the attention of the Board, and that earnest efforts are being made towards the promotion of these important ends. "A sound body, a cultivated mind, an extensive knowledge of things, some acquaintance with the

laws that control the faculties in their efforts after truth and strength, special training, a successful experience, and unlimited enthusiasm," are pronounced by high authority to be indispensable requisites to the attainment of the best and highest results in school instruction. And surely the best and highest results should constitute the aim of our endeavors, for, since perfection is impossible, the higher the standard, the greater the degree of excellence obtained.

It is a matter worthy of consideration, whether some plan might not be wisely adopted whereby more freedom could be allowed in transferring teachers to and from different schools, according to the combined judgment of Sub-committees and Superintendent. For instance, there are some teachers in the lowest grade of Primary Schools who are amply qualified to do, successfully, the work of some of the upper rooms in the Grammar Schools; and, on the other hand, there are those placed over some of the higher Grammar-school classes who are naturally fitted to do most excellent work among the little people in the Primary Schools; and so all along the whole line the cases are not few in number where similar changes might be profitably made. Such action ought not, and if properly understood would not operate against the standing of a teacher, nor be

regarded detrimental to her interests. Her pecuniary compensation would remain the same, and the change would simply imply conformity to the deliberate convictions of those who are, or ought to be, the best able to judge of the fitness of things.

Moreover, there ought to be more uniformity in the matter of discipline. In some schools there should be less, and in others more, strictness and severity. We do not refer to corporal punishment, but to that form of discipline known as "checks." For one teacher to impose upon herself a rule by which she is obliged to pain the sensitive nature of a naturally nervous and restless, but conscientious, child by giving "five checks" for the accidental dropping of a pencil, or movement of the lips, or motion of the body, which could not be avoided, and for another teacher to be so regardless of the proprieties of the place that these children shall exult over other children, because of the excess of liberty allowed in communication, and personal habits, is both inequitable and absurd. Great care is necessary in this matter. It is true no iron-clad rule applicable to all can or should be adopted, but the discrepancy observable on comparison between some of the schools points to an absence of realized dignity of position, and to a lack of

knowledge of human nature, as seen in children, both of which are essential requisites of good teaching, and both of which a little sympathy and attention would supply.

Elaborate attempts have recently been made in newspaperial columns, to create a public impression relative to our common-school system which is not warrantable by facts. One would suppose that the school-rooms were at times the scenes of almost inquisitorial torture, that the teachers are chiefly characterized by incapacity, and that the children are the innocent victims of systematized stupidity, maintained at an enormous public expense. We are given to understand that the graduates of our schools cannot write a letter intelligibly or grammatically, that "fresh from school" they are merely "a set of incapables," whose time has been mostly spent, under compulsion, either upon mental rubbish, or in painful cramming for senseless show. A simple statement of the truth shall be the answer. Corporal punishment is only allowed when all other means fail to secure good behavior, and even then it is not inflicted with undue severity. The teachers are a class of ladies and gentlemen of unimpeachable character, with good education, and in high social standing, some of whom have an enviable

and more than local reputation for critical scholarship and breadth of culture. The young lads and misses who go from our schools with certificates of approval to college, and other seminaries of learning, ought to be regarded a little higher than as a "set of incapables," if the severe examination which they creditably pass for admission to these institutions can be considered any test. Very few are "conditioned," and a rejection is very rare. Those who go from school to the counting-room, the office, the store, and the workshop, are undeniably the better able to comprehend and learn their duties from their mental training. People do not always stop to think that in large public schools, composed of scholars of all ages, and of different nationalities, method and discipline are absolutely indispensable, and that much of the "cramming" is necessarily the result of absences which are not always unavoidable, and that it is also often due to the habit, noticeable sometimes in adults as well as children, of trying to accomplish, in a short time and under high pressure, what systematic attention to daily duties would enable one to acquire with comparative ease. When Mr. James Parton's "glorious university," now situated on the "shining shore" of dream-land, shall have a local habitation on earth,

when its students shall be habitually aroused from their slumbers by "soft, undulating airs" from chiming bells to the fondly anticipated delights of manual toil among workers in wood, in leather, and in metals, or among the horses and the cattle, in the orchard, in the stable, or at the plough, and, at the sound of other fairy-like music, shall be instantly transported to the ecstatic heights of philosophic thought, arrayed in scholarly garb, then we may expect the all-accomplished youth to be prepared to pass at once, "fresh from school," to the post of responsibility of the experienced man of business, to dictate maxims of prudence and economy to the manufacturer, and to convince the world that men are no longer to be the "submissive vassals" they formerly were under the old regime. But, until these halcyon days shall dawn, it is the part of wisdom to avoid hastily adopting every new form of doctrine, and to press on towards the attainment of the best and highest results by heeding the admonitions of experience and common-sense.

Universal education is the foundation-stone of American liberty. This idea has hitherto been the inspiration of every grand achievement in the wonderfully varied experience of the first century of this Republic. The genius of the common-school system

is this, that it affords the same opportunities for the attainment of splendid results to *all* the children, to those of the humble poor as well as to those of the fortunate and the wealthy; to the dull, slowly-working mind that must persistently feel its way along into the realm of knowledge, and to the bright, quick-witted one as well, to whom the hidden mysteries of things seem to come by intuition,—all alike are permitted, and even stimulated, to reach forward for the prizes of intellectual superiority, and to regard wisdom as a pearl above price, and knowledge as more valuable than lands or gold. But according to the gospel as at present preached by the latest apostles of modern educational æstheticism, this is all wrong, and should be regarded as a *crime*, because “it educates our children beyond the position which the vast majority of them must always occupy”; and, furthermore, because it “puts into the blockheads what they cannot digest or retain, and makes them still more unfit to earn a decent living than formerly.” One would suppose from language like this, that we were living in a feudal land, with society separated into two distinctly defined divisions, typified by the vassal and his lord, instead of the New-England portion of a democratic cosmopolitan Repub-

lic. Who shall designate the blockheads and the stupid ones, and fix their station among the hewers of wood and the drawers of water? No attempt is made to educate a child above his station, because his station is just what, by his abilities and gifts, he chooses to make it. He starts in the race unfettered by social distinctions, conscious that the chances are open to all, and he knows that by industry he must win the prize. Who shall decide what the boy "naturally takes to, and can do best," until he has had a chance to try his hand? Who shall fix the "other conditions" under which the daughter "might be joyous, and in her element," until scope is offered for the growth of her abilities? How do you know what place God intended your child to fill, until you have afforded an opportunity for the development of the faculties with which the Creator has endowed him? In our restless American life, we often find the hand-to-mouth toilers of yesterday counted among the "privileged classes" of to-day. But, whatever his position in after years, the child is the better fitted for life's responsibilities from having received the mental training of the public schools. It is sometimes said, with supercilious air, "We are educating the people too much." Rather let it be affirmed

that generally people are suffering, not from being too well educated, but from not having education enough. It is erroneous to say that our young people are educated "out of their circumstances, beyond and above their plain duties, in a way to unfit them for honest labor," by the public schools. It takes but little reflection to see that the "criminal" phase of the matter consists in publishing to the young the pernicious doctrine, that "if they are ever to amount to anything, they must gradually unlearn a good part of the unwise teaching that has gone along with their book education." A boy who has the intelligence and information which even a Grammar-school education implies, is all the more competent to learn the intricacies and technicalities of mercantile, mechanical, or professional pursuits, because of the mental and moral discipline which he has received. A celebrated painter, on being asked with what he mixed his colors, answered, "With brains, sir!" If, upon leaving school, our young people will not mingle brains with work, if through family pride, or self-conceit, or laziness, they refuse to secure some trade or craft, when circumstances imply the necessity of doing so, if they are too "high-toned" for manual labor, and are allowed to drift along, waiting list-

lessly, Micawber-like, in search for "soft places," where there is but little work for good pay, let the blame be fixed where it belongs,—not upon the public-school system, but, possibly, upon the foolishness and snobbery of ambitious family and social life. The schools are responsible neither for parental weaknesses, nor for the peculiar notions of gentility somewhat prevalent in what is often considered "our best society."

The time has not yet arrived in which to lose faith in the public schools of Lowell. Doubtless the censorious and the hypercritical may find occasional opportunities for the indulgence of their notions; but the fact remains indisputable, that our schools are mainly well managed, well equipped, and have no cause for shame. The teachers are capable, upright, zealous, and sincere. Imperfections in the system are gradually yielding to improvements, year by year higher and better results are aimed at, and the cause of "universal education" is conscientiously served for the promotion of the happiness of an intelligent people.

In conclusion, we desire to make acknowledgments of the kindness and the courtesy of the gentleman who has for so many years faithfully served in the double official capacity of Superin-

tendent of Public Schools and Secretary of this Board. And to the members of the Board, each and all, we offer expressions of unfeigned respect and friendship, as we are about to separate. Whatever may be our future lot, wherever placed, let there be recognized a bond of sympathy between us, in a zealous attachment to the interests of the public schools of our prosperous city, so long as they shall strive to be "good enough for the best and free to all."

SOLON W. STEVENS, *Chairman*.

JOHN J. GREEN.

GEORGE C. OSGOOD.

JOHN A. SMITH.

LEONARD HUNTRESS, JR.

REPORT ON PENMANSHIP AND DRAWING.

To the School Committee of Lowell: —

THE Committee on Penmanship and Drawing present the following report :

The specimens of drawing exhibited in Huntington Hall annually, must satisfy everybody that good work is being done in this department of our public schools. The exhibition of last spring proves that the work is better than it ever was before. If any one cares to learn why this is so, let him visit our schools, — the Day Schools, or our Free Evening Drawing School, — and he will see the reason. The teachers are in earnest. They are interested in their work, and they impart their interest to the scholars. In this way only has it been possible for our Drawing Schools to attain to the position they occupy, second to none in the Commonwealth.

For the season of 1881-82 the School Committee appropriated \$4,000 for the Free Evening Drawing School. The expenses were as follows :

Instruction	.	.	.	.	.	.	.	.	.	\$3,325 00
Janitor	.	.	.	.	.	.	.	.	.	66 25
Lighting	.	.	.	.	.	.	.	.	.	238 82
Printing	.	.	.	.	.	.	.	.	.	52 75
Incidentals	.	.	.	.	.	.	.	.	.	265 43
										<hr/>
Total	.	.	.	.	.	.	.	.	.	\$3,948 25

The following table will show the number of scholars in the different classes at the beginning and at the end of the term.

						Beginning of Term.	End of Term.
Architectural Class	.	.	.	.	.	115	54
Machine Class	.	.	.	.	.	85	43
Free Hand Classes	.	.	.	.	.	204	136
Class in Modeling	.	.	.	.	.	21	19

For the present term, we have retained the services of all the instructors of last year, with the exception of Mr. Kirkley Hyde, who for many years served acceptably as principal of the Machine Department. We have been unable to secure his services this year, but his place has been filled by Mr. S. G. Stevens, who is bending all his energies to the work, and with most excellent results.

A new department has been formed,—the Classes in Crayon Drawing,—in charge of Helen J. Leavitt, an arrangement which we are confident will result to the benefit of the school.

The principal teachers for the present season are, —

F. W. STICKNEY, Architectural Department.

S. G. STEVENS, Machine Department.

HELEN WRIGHT, Free Hand.

ELLEN D. CARNEY, Modeling.

HELEN J. LEAVITT, Crayon.

We would recommend to all the members of the Board that they attend the Exhibition of Drawing next spring; or, what would be more satisfactory still, that they visit the Free Evening Drawing School during the present term, to satisfy themselves of the excellent character of the School, and to learn the reason why.

LEONARD HUNTRESS, JR.

GEO. W. BATCHELDER.

JOHN J. GREEN.

M. SEXTON.

JOHN J. PICKMAN.

REPORT ON EVENING SCHOOLS.

To the School Committee of Lowell:—

GENTLEMEN,—Your Committee desire to report, that at the beginning of the year the various Evening Schools were all in successful operation, with a very full attendance at each one of the schools. We found them distributed as follows:—

No. 1, for males and females, in the basement of Green School-house.

No. 2, for males and females, in basement of School-house, corner of Central and Lyon Streets.

No. 3, for males, in Ward Room on Church Street.

No. 4, for males and females, in Mission School building, on First Street, Centralville.

No. 5, for French scholars only, male and female, in basement of School-house on Common Street.

No. 6, High School, for males and females, in hall of Worthen-street Primary School-house.

The above-named schools held regular sessions on Monday, Tuesday, Thursday, and Friday evenings of each week, until the last of February.

The amount expended for these schools was \$4,380.23. We are confident that this money has been well expended, and the results obtained of great value to the scholars who have attended these schools.

The schools opened their sessions again this year on the evening of November 9, with a very full attendance, and nearly the same corps of teachers as were employed last winter.

The whole number in attendance this year was 1,617, the average attendance being 598; while the whole number for the year before was 1,309, with an average of 500.

The school for French scholars opened this year with an increased attendance, — the large number of those attending between the ages of eighteen and twenty-five years, being especially noticeable. We believe this school is doing a great amount of good for the particular class of scholars for whom it is designed. The room has been divided by a wooden partition, which enables us to separate the male and female departments from each other, and thus aids materially in the management and conduct of the school.

The accommodations for the school in the building on First Street, Centralville, have proved, this year, entirely inadequate. Some fifty scholars who applied for admission at the opening of the school were sent away for want of room; twice we have asked of the proper Committee for more room, or a larger room, but we are sorry to report that our wants still remain unsupplied. The room we now occupy is so crowded with scholars, that it is impossible for them to write at the tables with any satisfaction. We hope immediate attention will be given to the needs of this particular school.

The method of instruction in these schools remains the same as last year.

At the meeting of this Board in October last, the decorum or order in these schools was disparaged quite severely. Since then the member has visited some of these schools while they were in session, and cheerfully admits that he was somewhat mistaken, and now says the order and discipline are very good, much better than he expected to find. The ventilation and hygienic condition of the rooms occupied by these schools were severely commented upon. We freely admit the truth of these comments, and most sincerely and earnestly hope that, at no distant day, these schools may have just as good accommodations for their sessions as the public day-schools have.

While there may be chances for improvement in these schools in many ways, the Committee are pleased to notice, this year especially, an increase in the attendance of an older class of scholars, their earnest attention to the lessons, and the marked improvement made by them in the various studies. We confidently expect these improvements to continue and increase during the remainder of the season. We most certainly hope another year may witness still greater improvements.

We most cordially invite the members of this Board to visit all of the Evening Schools at least once during this winter, hoping thereby to obtain the benefit which may be derived from personal observation of the workings of these schools.

Your Committee are very confident that these schools are doing a great amount of good in the city, and would therefore recommend their continuance.

Herewith we present a summary of the expenses, attendance, etc., of these schools for 1882.

SUMMARY.

SCHOOLS.	No. of Teach-ers.	Even-ings Taught.	Whole Number.			Average Attendance.		
			Males.	Females.	Total.	Males.	Females.	Total.
High	2	69	39	16	55	12	5	17
No. 1	23	68	386	368	754	121	79	200
No. 2	14	66	203	30	233	138	13	151
No. 3	7	61	163	..	163	69	..	69
No. 4	9	69	127	38	165	48	14	62
No. 5	9	51	130	117	247	52	47	99
	64		1048	569	1617			

EXPENDITURES.

Paid to teachers of High School	\$ 146 00
Paid to teachers of Elementary Schools	2,922 75
Paid to janitors	638 00
Paid for lighting	235 29
Paid for printing and advertising	25 75
Paid for books and stationery	300 17
Paid for incidentals	112 27
Total	\$4,380 23

GEORGE C. OSGOOD,
JOHN A. SMITH,
TIMOTHY H. BRENNAN,
MICHAEL SEXTON,
GEORGE E. STANLEY,

Committee on Evening Schools.

REPORT OF COMMITTEE ON MUSIC.

To the School Committee of Lowell:—

The Committee on Music have but little to add this year to what has been expressed in some of the Reports of previous years, with reference to this department of study. It may be stated, however, in general terms, that a higher degree of excellence has been obtained than during any one of the immediately preceding years. This is owing to more frequent use of the blackboard in the lessons and daily exercises, and to the combined experience and judgment of the teachers in carrying out faithfully the directions of the chief instructors.

The fact that a certain degree of ability to teach music in its elementary forms is required of those who apply for certificates to teach in the schools, is found to be of great advantage in the successful management of this course of study.

Owing to the change which has recently been made in the construction of Huntington Hall, we were unable to have the usual annual public exemplification by the children of the method and system by which music is taught in the schools. This was a matter of regret, both to the Committee and to a great number of parents, who have always attended these exhibitions with interest and delight. In order to carry out the spirit of the Rules, the Committee decided to select some one Grammar School, and to conduct an examination from the lowest to the highest grade. They made choice of the Bartlett School. Not only was the usual method of instruction witnessed, but questions were asked by the Committee, and exercises were written by them on the blackboard which the scholars were asked to sing at sight, in parts, by numerals, and by syllables. The results of the examination were very satisfactory. Among the choruses which were very creditably sung, there were selections from Rossini and Meyerbeer, containing solos which were

exceptionally well rendered by two young Misses belonging to the school.

To their great satisfaction, the Committee have found most of the schools some two or three months in advance of the attainment of the same schools at the corresponding time of former years. This is due, as before stated, to more thorough instruction, and also to an increasing interest on the part of the children in this study.

Both the utility and the pleasure derived from this exercise are no longer matters of doubt. Apart from its recreative and ennobling influence, it is coming to be regarded as a matter of interest from a practical point of view. In these days of serious discussion with reference to industrial education, when the attention of the the public is directed to the importance of having children trained in the rudiments of both the mechanical and the fine arts; when the American people are fast coming to be recognized as a musical people; when skill in this line is seen to command pecuniary compensation in proportion to its excellence, — it becomes a matter worthy of consideration, that our children shall be well grounded in fundamental knowledge of the science of music in the public schools. In giving attention to this subject, we are simply putting ourselves in the line of progress with other communities, and other nations of the world. If in passing judgments we are not “more nice than wise,” if we do not become finical in trying to be critical, there is reason to hope that, as a people, we may ere long compete in excellence with the communities of older nations, where the art of music is regarded as “to the manner born.”

In order that all the schools may have the same amount of instruction, it is necessary, in certain cases, on account of their number, to bring some schools of the same grade in the same building together, during the singing exercise. This is not in all respects satisfactory, especially in those schools where there is no hall or place for meeting. It is highly probable that, in the immediate future, some other plan must necessarily be adopted, to remedy certain objectionable features of this kind which are now apparent.

In consideration of all circumstances we are able to report the management of this department of our public instruction in a highly satisfactory condition, and in this connection we desire to express sincere commendation to Mr. Willey, and to the teachers generally, for fidelity in this sphere of their labors. We hope the work will continue to grow in excellence, and that our successors may be able to report a continuous advance in the administration of this interesting and pleasurable course of study.

In the *Popular Science Monthly* of August, 1882, there may be found an article written by Dr. Richardson on "National Necessities and National Education," which contains some suggestions relative to the subject under consideration. After explaining certain reforms in educational matters, which the writer desires to see inaugurated, he summarizes his thoughts by submitting several propositions, and with the following quotation from one of these we close this Report:—

"We propose, finally, to use the time that we wish to extract from book-learning, in some, and indeed in a free degree, in the cultivation of certain of the more refined and pleasure-building arts. First among these we would place music, as the primitive of recreative pleasures. We observe that our children are well and happy when they sing; we see men and women gathered together, and find the height of mirth and happiness when somebody gives a song or a tune. In the most refined society music is the joy of life; in the lowest dens, men hardly above animals, when they meet to be amused, sing. It may be that in all these positions the music is very bad, but it is there, and it extends through creation. Here, therefore, is the first recreation to be scientifically studied. Make a nation, we say, a musical nation, and think how you have harmonized it, socially, morally, healthfully. We cannot begin to teach this recreation too early, or too soundly.

"We ought to begin by making the learning of notes in succession—the scale of musical chords—coincident with the learning of the alphabet. Next, the intervals should be taught, in a simple but careful way, so that melody may be acquired, and the art of sight-singing attained. From this elementary basis should follow the simplest forms of time, after which a plain melody could be read with as much ease as the reading of the first story-book. Simple part-songs, leading to endless delight, would succeed in exercise; and a true and natural language in sweet sounds would be the property, in one generation, of all the nation."

SOLON W. STEVENS, *Chairman.*

GEORGE C. OSGOOD.

GEORGE W. BATCHELDER.

GEORGE E. STANLEY.

FRED WOODIES.

REPORT OF THE SUPERINTENDENT.

Gentlemen of the School Committee:—

IN compliance with the requirements of your Rules, I respectfully present the following report for 1882.

SUMMARY OF STATISTICS.

Value of real and personal property	\$46,414,411
Population (1880)	59,485
Estimated (1882)	66,000
Number of polls	15,364
Increase for the year	980
Number of children in the city between five and fifteen years of age, May 1, 1882	10,330
Ward One, 1,722; Ward Two, 1,526; Ward Three, 2,319; Ward Four, 1,550; Ward Five, 1,853; Ward Six, 1,360.	
Increase for the year	306
Number of public schools	91
One High, eight Grammar, two Mixed, and eighty Primaries.	
Number of teachers employed in them	165
High School: two males, eight females	10
Grammar Schools: eight males, sixty-two females	70
Mixed Schools: two females	2
Primary Schools: eighty females	80
One teacher of penmanship and drawing	1
One teacher of vocal music	1
One teacher of military tactics	1
Increase for the year	5
Average number of scholars belonging to all the schools	6,953
High, 359; Grammar, 2,692; Mixed, 59; Primary, 3,843.	
Average attendance in all the schools	6,341
High, 346; Grammar, 2,474; Mixed, 51; Primary, 3,470.	
Average number belonging to each teacher	42.6
High, 36; Grammar, 38.5; Mixed, 29; Primary, 48.	

Average per cent. of attendance	91 $\frac{1}{3}$
High, 96; Grammar, 92; Mixed, 86; Primary, 90.	
Average cost of each scholar, for tuition only, based on the average number belonging	\$15 01
High, \$28.28; Grammar, \$17.92; Mixed, \$22.47; Primary, \$11.56.	-

The salaries of the teachers of music and penmanship are divided among the different grades of schools in proportion to the time spent in them.

Cost of military instruction in High School, to each scholar . .	70
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RECEIPTS AND EXPENDITURES.

RECEIPTS.	
Balance undrawn Jan. 1, 1882	\$ 00
Appropriated and assessed	135,000 00
Received from transfer	17,708 15
Received from other sources	1,199 36
Total amount standing to the credit of Schools	<u>\$153,907 51</u>

EXPENDITURES.

Paid for instruction to teachers of day-schools:

High School	\$9,500 00
Grammar Schools — Bartlett	\$5,829 01
Colburn	5,180 00
Edson	8,218 63
Green	5,978 88
Highland	6,010 25
Mann	4,580 00
Moody	5,721 89
Varnum	5,090 62
	<u>46,609 28</u>
Mixed Schools	1,200 00
Primary Schools	44,471 84
Teacher of penmanship and drawing	1,200 00
Teacher of vocal music	1,200 00

Total paid for instruction in day-schools, exclusive of
military instruction in the High School \$104,181 12

There were paid for Evening Schools (Elementary):

For instruction	\$3,510 75
Janitors	640 00
Lighting and incidentals	351 68
	<u>\$4,502 43</u>

Evening Drawing Schools:

For instruction	\$3,184 53
Janitor	117 50
Lighting and incidentals	406 14
	<u>3,708 17</u>

Amounts carried forward	\$8,210 60	\$104,181 12
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<i>Amounts brought forward</i>	\$ 8,210 60	\$104,181 12
Janitors for day-schools	9,915 59	
Fuel	10,196 64	
Water	706 11	
Bills of Superintendent of Public Buildings for lumber, making and repairing furniture, and labor generally	1,407 20	
Printing and advertising	452 02	
Books, charts, etc., for general use	149 60	
Printing, binding, and distributing School Reports	436 91	
Free text-books	4,346 76	
Taking school census	327 90	
Drawing-school exhibition	153 22	
Military instruction	500 00	
Rifles and incidentals	261 50	
Instruction of children in Draught and Chelmsford	76 76	
Rent	226 94	
Salary of Superintendent Public Schools	2,300 00	
Salary of Truant Officers	1,500 00	
Incidentals	8,558 64	
	<hr/>	\$49,726 39
Total expenditures		\$153,907 51
Balance undrawn Jan. 1, 1883		00 00

SCHOOL-HOUSES.

Balance undrawn Jan. 1, 1883	\$ 1,845 72
Appropriated and assessed	40,000 00
Received from transfer	3,121 13
Receipts from all other sources	442 72
Amount standing to credit of School-houses	<hr/> \$45,409 57 <hr/>

EXPENDITURES.

Butler Grammar School-house on Gorham Street (still unfinished):	
Paid for 25,592 square feet of land, at 50 cents	\$12,796 00
Paid for materials and labor	12,037 78
	<hr/> \$24,833 78
Primary School-house on Grand Street (still unfinished):	
Paid for 3,712 square feet land, and building	\$1,856 00
Paid for materials and labor	1,478 11
	<hr/> \$ 3,334 11
Paid for general repairs	17,241 68
Total	<hr/> \$45,409 57 <hr/>

The Butler Grammar School-house was named in honor of our distinguished fellow-citizen, Gen. Benjamin F. Butler, Governor-elect of the State. It is located between Gorham and Livingston Streets, a few rods north of Carter Street. The brick-work is laid up to the third floor, and the roof will soon be put on. The building will not probably be finished before July. It will be one of the finest school-houses in the city, and superior to all others in its internal arrangement, if the plan is strictly adhered to: The following is a general description of the building: It is seventy-four feet six inches in front, eighty-one feet six inches in depth, two stories high, with hipped roof, and pitched roof on porches, which are thirty-three feet wide by twenty feet six inches deep. In the basement will be the boiler, coal-room, water-closets, and play-rooms, separated by brick walls, with an entrance from the yard on each side. The porches contain the staircases and teachers' rooms. There will be on each floor of the main building four school-rooms; each room will have two coat-rooms, a teacher's closet, and two openings into a large ventilating shaft. In the centre of this shaft there will be located an iron smoke-pipe, the heat from which, in the winter season, will cause the air in the shaft to rise, thus keeping up a constant draft through the ventilator in the roof. The main hall-ways will be eighteen feet wide. The space under the roof will be left unfinished, but it is so arranged and lighted that it may, at any time, be finished into a large hall. A full description will be given on the completion of the building.

To provide accommodations for the scholars in the neighborhood of Westford, Grand, and Chelmsford Streets, the Council authorized their Building Committee to purchase land and build a school-house, the expense not to exceed \$4,500. With this sum the Committee could not buy a suitable lot of land, and build a two-story school-house on it. They therefore decided, after a conference with the sub-committees of the schools to be provided for and the Superintendent, to buy the school-house on Grand Street and an additional lot of land in the rear, raise the building, remodel it, and make a two-story school-house of it. The purchase was made, the work commenced, and the building will be completed in about six weeks. It will furnish excellent accommodations for two schools, at a moderate expense.

High School-house.—The old tanks have been removed, water-closets overhauled, boiler inspected, and pipes repaired; also, one and a half water-service substituted for a three-fourth inch, so that

all complaints arising from lack of water for the boiler, water-closets, laboratory, or drinking purposes, have entirely ceased. New treads have been put on the stairs in the hall-way, and some excellent blackboards put on the walls in the upper rooms and laboratory.

Edson School-house has had a general overhauling. Four new ceilings and the walls in eight rooms have been skimmed, and the rest of the walls in rooms and hall-ways whitened or whitewashed. The wood-work has been grained and varnished, and new floors laid in two rooms. A new room has been finished in the attic. New windows have been put in the main building.

Franklin School-house has been thoroughly repaired. Four ceilings have been newly plastered, the walls in four rooms skimmed, and the other rooms and hall-ways whitewashed. The wood-work has been newly painted, grained, and varnished, except in one room used for a store-room.

Moody School-house has had new floors put down in two rooms, and the hall-ways have been whitewashed. A new sewer has been put in, connecting with High-street sewer, and one and one half inch water-service, to supply water for boiler and water-closets.

Mammoth-avenue School-house had a new floor last April, was whitewashed, and outside was painted. The building should be moved forward about fifteen feet, raised, a story put under it, and a cellar put in.

Middlesex Village School-house.—The house has been raised two feet, a cellar put under it, a new piazza built in front, and the lot graded. The old shed with the privy was moved away, a new privy built back from the school-house, the lot in the rear divided, and the whole lot fenced in.

Kirk-street Primary.—The terra-cotta work has been put in place in the front part of the building.

Rock-street Primary has been raised two feet, the cellar wall has been laid over, yard graded, and open fence built on two sides, besides some general repairs made. Though the building has been much improved, the ventilation is not yet improved.

Elliott-street Primary has had new floors laid, and the yard has been concreted. The cellars are bad, and something should be done to make the privies decent. This house is on one of the busiest streets in the city, and the teachers are at times, especially in the summer season, unable to hear their classes recite, on account of the noise made by carriages passing. A location in a more quiet neighborhood is exceedingly desirable.

Race-street Primary.—A new fence has been built on the east side of the lot, and the inside of the house has been painted, grained, and varnished.

Cabot-street Primary.—Very little comparatively has been done here, though it needs a thorough overhauling. For several years the necessity of suitable accommodations for the scholars attending the Cabot-street and Race-street Schools has been acknowledged. The chief difficulty in the way of bringing about the desired object was the unwillingness of the owner of an adjacent estate to sell. The City Council authorized the Committee on Lands and Buildings two years ago to purchase a suitable lot for a school-house, which should be large enough for six schools. The proceeds from sale of the Race-street property would have helped materially towards defraying the expense of erecting a new building, if a suitable location had been obtained. The project has not for the last year been urged, on account of the probability of the opening, next September, of a large parochial school for French children in the neighborhood.

All the houses needing repairs have been attended to by the Superintendent of Public Buildings, who, with his Committee, has, as far as the appropriation and time would allow, cheerfully complied with the requests of the Committee on School-houses. Much has been done without any formal request, and because the repairs and alterations seemed to be needed.

In the High and Franklin School-houses, an entirely new system of water-closets and urinals has been introduced, and the result has been perfectly satisfactory. At the Moody and Pond-street School-houses, the privies in the yards were so offensive, it was found absolutely necessary to make a change, and the same arrangement was made in the basement of each, as was made at the High School. The old privies have been removed, the vaults filled up, and at the Moody School-house the fence between the yards was removed. In the spring the yard will be graded, and the scholars will have a fair play-ground.

A larger amount of money has been expended on repairs alone, during the year, than for many years past. During the coming year, there should be a school-house erected in Pawtucketville, another in the neighborhood of Lane Street, and the house on London Street should be raised. Possibly a school-house may be needed beyond the Fair-grounds.

The subject of ventilation is again recommended to your consid-

eration. There are on the roofs of school-houses several kinds of ventilators, all of which are claimed to be excellent, but none accomplish what is promised. The ventilation of the Primary School-house on Kirk Street is nearer perfection than any other I have seen, but the means there used may not be successful in every room. The subject is a very important one, and I trust it will be thoroughly considered.

SCHOOLS.

Intermediate School, No. 1, was merged in the Highland School, when it took possession of the new school-house on Pine Street.

The Mixed Schools, No. 1, at Middlesex Village, and No. 2, on Varnum Avenue, are in reality district schools. Scholars attending them may be transferred to schools in the city, and enter classes for which they are qualified, whether in the Grammar or Primary Schools.

The Reform School is *sui generis*.

The Graded Schools are the High, Grammar, and Primary.

Of the High School, it is only necessary to say here that it is not subject to changes like the other graded schools.

The following table, made up from the reports of the Grammar-school principals for the term ending December 23, will give some idea of the present condition of these schools : —

SCHOOLS.	No. of rooms occupied.	No. of teachers employed.	No. of different pupils.	Average No. belonging.	Average attendance.	Per cent. of attendance.	No. belonging at close of term.
Bartlett	8	9	452	419	387	92	401
Colburn	6	7	350	290	266	92	300
Edson	12	13	669	587	546	93	595
Green	8	9	414	350	328	94	363
Highland	8	9	455	382	348	91	417
Mann	5	6	159	114	103	90	112
Moody	7	8	290	247	227	92	245
Varnum	7	8	362	306	278	91	317

By the opening of the parochial school on Suffolk Street, the Mann School lost more than a hundred scholars, and the Green about fifty. The Bartlett was not affected at all. The Moody reports a falling off, in the average number belonging, from 1879, as follows: 1879, 355; 1880, 279; 1881, 262; 1882, 247. All the other Grammar Schools have increased in size.

A new department has been opened in the Varnum School, Primary No. 47 having been removed to an unoccupied room on Tenth Street.

The Colburn School is larger than ever before, and needs an additional room.

The Edson School has been partially relieved by the fitting up of a room in the attic.

The Highland School (formerly the Franklin) ranks third in size, and is a school of first importance.

The department under the charge of Miss Bennett, in the Franklin School-house, should be transferred to the Highland School-house, and new quarters furnished for Primary No. 79, now in the building.

The Rules of the School Committee make it the duty of the Superintendent to "pay particular attention to the classification of schools, that there may be, so far as practicable, a uniform course and system pursued in the different schools of the same grade." The course of study is, I believe, closely followed in all the schools, but the classification sometimes is made to conform to circumstances. The Edson and Mann experience the same difficulty. In the Edson, occupying twelve rooms, it requires several rooms for a class, on account of the large number of scholars that are sent to it from the Primaries, thus making it possible for two teachers to have a single class each, while another has parts of three. In the Mann School, occupying but five rooms, some of the teachers must have two different classes, whether the school is full or not. Our classification (eight classes) was once not only the most convenient, but the best that could be devised, as it conformed to the number of sittings in the rooms, the number of divisions into classes, and the division of school-hours into thirty minutes for study and ten minutes for recitations.

This was the scheme: One large room, containing 240 seats, divided into four sections of sixty seats each. Each section seated four classes. Division of time: Three hours each half-day. Exercises: Morning — Ten minutes for devotional exercises and calling

the roll, eight recitations of ten minutes each, ten minutes for recess, eight recitations of ten minutes each. Afternoon—Same as the forenoon, except the first ten minutes. This system had many advantages, but after the remodeling of the school-houses into eight separate rooms, it was abandoned. The classification, however, has been retained, though the reason for it has ceased to exist. The teachers follow the classification as well as they can. I think that a classification may be devised, which, with a modification of the course of study, will be more satisfactory in all respects than that now in operation. The opening of the Butler School in September will help to bring this about, by reducing the size of the Edson, thus making seven schools of nearly the same size.

There is as great diversity in the Primary as in the Grammar Schools. They are *ungraded* and *graded*, having one, two, or three classes. There are eleven ungraded and sixty-nine graded schools. Each class in an ungraded school should contain nine scholars; in a school having three classes, eighteen scholars; in a school having two classes, twenty-seven scholars. There should be, and there usually is, greater progress made in this latter grade, for more time can be devoted to a class than in the other grades; but only in school-houses containing three or more rooms, or in houses that are near each other, can this grading be carried out perfectly. Instances of this may be seen on Common Street, in the Mann School-house, Lyon Street, and on Carter Street.

On Cabot Street, Worthen Street, Branch Street, and Howard Street, may be seen modifications of the grading.

Cabot Street.—No. 36 is the highest grade in a group, and promotes all its scholars to Grammar Schools once a year. Nos. 38 and 74 promote to No. 36. Nos. 10 and 13, on Race Street, and 70 and 73, on Cheever Street, promote to Nos. 38 and 74 on Cabot Street. Primaries 13, 70, 73, and 74 are composed of French scholars.

Worthen Street.—Nos. 8 and 12 are schools of the highest grade, and promote their first classes to the Grammar Schools. Nos. 23 and 29, schools of the middle grade, promote to Nos. 8 and 12; No. 69, in the hall above, prepares beginners to fill up Nos. 23 and 29.

Branch Street (Franklin School-house).—No. 17 is the highest grade, No. 34 the middle grade, and Nos. 50 and 76 the lowest grade. Besides, there is a school composed of scholars belonging to Nos. 17 and 34, under the charge of a temporary assistant. In reality there are four grades in this building, Nos. 50 and 76 being the lowest.

Howard Street.—No. 24 is the highest grade, No. 28 the middle grade, and No. 77, on Grand Street, the lowest grade.

In all these grades of schools, the teachers work together harmoniously. In the schools that supply scholars to No. 36, on Cabot Street, the large number of French scholars hinders a better classification.

On Worthen Street, unless there shall be an increase of scholars, No. 69 may be merged into Nos. 23 and 29, and the former grading restored.

On Branch Street, I suggest the propriety of re-grading all the Primary Schools in the building, and making each class a grade. It can easily be done, as in May there will be scholars enough to make it feasible.

The Branch-street School, which *has been visiting* No. 28 on Howard Street, while its own building has been in the hands of the carpenters, will return home about the first of March. As there will be two rooms in the building, it may be possible to grade it with a new school to be formed there, in which case the schools on Howard Street will need re-grading.

The variety of grades and of classes has been caused chiefly by want of school-rooms. Less inconvenience will be experienced after July.

REFORM SCHOOL.

Mr. Wm. A. Lang, the accomplished and efficient teacher of the Reform School, has furnished me with the following statistics:—

Whole number attending Jan. 1, 1882	74
Whole number attending Dec. 31, 1882	76
Average monthly attendance	73.5
Whole number of different scholars	125
Committed by order of the Court	53
Discharged	55
Pardoned	17
Average age	11 yrs. 6 mos.

Thirty-eight were from Lowell, fifteen from other towns or cities in the county.

The offences for which they were committed were,—

Truancy	7
Habitual truancy	28
Wandering about the streets	5
Stubbornness	2
Larceny	7
Unlawfully driving a team	4

The Principal has now a very efficient Assistant. The course of study was given in the report of 1880, and necessarily is made to conform to the needs of each individual.

The number of pauper children is 43: 29 males, 14 females. Sentenced, 33: 29 males, 4 females.

I have given these statistics, because, by the City Charter, it is made the duty of the School Committee to exercise the same supervision and control over any institution of instruction and house of reformation established by the City Council, as they are required by law to exercise over the public schools, as far as practicable. At the time of the revision of the City Charter, 1875, the School Committee agreed with the Overseers of the Poor, that their duties would have been properly discharged when they had approved the books used and the course of study pursued. After a few years the Committee decided that it was also their duty to elect the teacher of the Reform School, and each year since they have performed that duty.

Whether these several acts of the Board are to be considered mere forms or not, I think it would be well to inquire into their rights and duties in respect to those children in the school who have been sent there by their own officers. The thirty-five truants are members of the public schools, to which they are returned after having received the punishment due to juvenile offences. The Committee stand in the relation to them of "kind and judicious parents." If deemed necessary for the good of society to deprive a juvenile of his personal liberty, would it be an act of kindness to place him where it would be possible for him to be an associate of criminals?

I think the time has come for a school at the farm which shall be reformatory in the best sense, and a fit place for the temporary confinement and instruction of irrepressible youths of both sexes.

MILL SCHOOL.

It was not thought advisable to have any Mill Schools this year.

MIXED SCHOOLS.

In the Mixed Schools there is nothing special to be mentioned, except that the school at Middlesex Village has an average number belonging of 38, eight larger than last year.

PRIMARIES.

Three new Primaries have been established during the year: one in the Highland School-house, No. 79; one in the room vacated by the

Intermediate School, No. 80; and one now occupying a room in a private house on Mount Hope Street, Pawtucketville, which, till established in November as a Primary School, was considered as a part of No. 58, on Mammoth Avenue. It is numbered 81. Its report is embodied in the returns from No. 58. For this school (No. 81) a house should be built as soon as possible.

The Primaries have done exceedingly well the past year. Much attention has been paid to reading. The teachers are making good use of the supplementary reading-matter furnished them, and the call for more is constantly increasing. A system will early be adopted, by which there will be regular transfers from school to school, of the books furnished them. I have put into six schools of the lowest grade, in different parts of the city, arithmetical charts, compiled by Colonel Parker, late Supervisor of Schools in Boston, to experiment with in the teaching of arithmetic after the Grube method. The result of the experiment will be reported as soon as possible.

Of the Primary Schools, I can say much in praise. Some schools are small, others very large. Those on Worthen Street, in the Mann School-house, and on Common Street, have suffered from the opening of the parochial school on Suffolk Street, but it is hoped they will soon recover. The schools on Common Street deserve special notice, as it was feared they would be entirely broken up on the opening of the parochial school. At the commencement of the term in September, No. 26, the lowest grade, reported as average number belonging, 53; No. 11, middle grade, 44; No. 43, upper grade, 43; No. 32, ungraded, 67; No. 78, ungraded (French children), 36. The same schools report, as an average number belonging at the close of the term, respectively, 57, 40, 34, 74, and 40, an average of 49 to a teacher.

The scholars attending these schools enjoy special privileges. The play-grounds are spacious, the basement large, the rooms light and airy, and the teachers faithful and skilful.

The schools in the Mann School-house, Nos. 41, 22, and 44, reported at the commencement of the term in September, 108 scholars; at the close of the term, average number belonging, 110.

GRAMMAR SCHOOLS.

The Bartlett is very large; Colburn, larger than last year; Edson, fifty larger; Green, six larger; Highland, twenty-three larger; Mann, forty-three smaller; Moody, seven smaller; Varnum, fifty-two larger. The comparison is made from the "annual returns."

During the year, book-keeping has been added to the Grammar-school studies, and has been very successfully taught. Increased attention has also been given to the study of language, and the results promise to be satisfactory. In some of the schools a regular system of teaching composition has been followed, independently of text-books. Occasional exhibitions have been held for the benefit of the parents, and in nearly all the schools an unusual interest has been excited.

In the month of April, a Longfellow memorial service was held in all the schools, in some of which the exercises were very interesting and instructive.

A teachers' association has been formed, from which much good is expected.

This grade of schools, like the Primary, experienced much inconvenience from the necessity of adapting their classification to the number of scholars in the school and the qualifications of the pupils.

In some schools, I have found no fifth class; in some, no seventh; in some, a teacher has three classes; in some, one; and in others, two. The disadvantages resulting from this classification are great. No teacher can do for three classes, of fifteen scholars each, what she can do for one class, of forty-five.

Ninety scholars, admitted to a Grammar School, can be formed into two classes, of forty-five each, occupying two rooms. One hundred and forty scholars, admitted to another school, would make three classes, and occupy three rooms, in each of which there might be ten scholars left over from the preceding year, unable to advance, from not having passed a satisfactory examination. The one hundred and forty admitted from the Primaries, and the thirty, in three classes, held back, must be classified. How can it be done, is the question. In one school I have found fifty scholars, in three classes; in another, the same number in two unequal classes; in another, one class of about fifty.

This state of things may continue till July. After that time there will be no necessity for it, as there will be sufficient Grammar-school accommodations to allow a proper division of scholars into classes.

HIGH SCHOOL.

I report no change of teachers or course of studies. The school stands high in the estimation of the people, and is doing an excellent work. It ranks well with the high schools of the State.

In addition to the usual studies, military instruction has been regularly given by Capt. A. A. Hanscom, and with excellent results. Mr. Coburn has presented a report in regard to the operations in this field, and I take the liberty to make some extracts from it.

“Military instruction was introduced as a regular study in our High School near the close of last year. Within the past few years it has been added to the curriculum of many schools and colleges, both public and private. It has been successfully tried in Boston for nineteen years, and much benefit is said to have been derived from its introduction. It is a recognized fact, that a systematic course of instruction is absolutely necessary for the success of any institution of learning; and it is evident that physical exercise, also, in order to obtain the best results, should be conducted in a systematic manner, so that a few muscles may not be taxed, to the neglect of others.

“It is claimed for this study that, in addition to the benefit derived from physical exercise and the knowledge obtained of military tactics, it exerts an important influence upon the government of the school.

“The appointment or election of officers, subject to the approval of the principal of the school, has a tendency to elevate the standard of deportment during school session; as the conduct of a scholar should be carefully considered before placing him in command of others, enforcing the principle that a soldier must learn to obey before he can command.

“A few statistics are here given in connection with the drill. The battalion, at the present time, is composed of four companies, of forty-five men each, with a total membership of one hundred and eighty-four. The number of boys connected with the High School is one hundred and ninety-one; of this number, several are physically incapacitated from taking part in the drill, leaving a very small per cent. permanently excused. The attendance during the year has been very satisfactory, being, on an average, a little more than ninety per cent. The regular drill hours are on Mondays and Thursdays, from twelve to one; this being the time when it interferes the least with the sessions of the Police Court, which are held in an adjoining room. It is impossible to remedy this annoyance, and for this and other reasons the need of a drill-shed is very much felt. It was thought, when first introduced, that it might interfere with the other exercises of the school, but, under the present arrangement, there are the same number of recitations per week as

formerly; only on Mondays and Thursdays they are made a little shorter. Two public exhibitions have been given during the year; one on Memorial Day, when the battalion performed escort duty, and also gave a dress parade at Monument Square; the other on the 16th of June, when an exhibition drill for the colors was held in Huntington Hall. Each captain followed the same order of company movements; the judges awarding the colors to Company B, Capt. Geo. C. Dempsey. Eighty-six per cent. of the members took part in this exhibition. Mr. Pickman, of the School Committee, presented the colors, and in his remarks alluded in complimentary terms to the fine appearance of the battalion, and to the proficiency shown in the manual of arms. The battalion is greatly indebted to Captain Hanscom, the military instructor, who by his devoted attention and faithful services, has brought about the good results above mentioned."

I suggest that some system of gymnastics should be introduced into the school for the benefit of the girls. During the High-school life of a young girl, she should take such physical exercise as will conduce to health and strength, and a system of instruction adapted to such a purpose would accomplish much better results than the varied exercise that comes only from walking up and down stairs, or in the grounds, or on the street. The hall might be cleared of settees during most of the day, and used for the exercise without serious inconvenience.

In most of the Grammar Schools, the morning devotional exercises are held in the class-rooms. This can be done in the High School, as well as in the Grammar Schools. It would be better, however, to make a hall over the chemical room, which could be done at slight expense. It would also be serviceable for many other purposes.

The Berlitz method of teaching French has been followed during the last part of the year, and with satisfactory results. By this method pupils learn to speak, as well as to read, the language; and, as far as I can judge, the method is almost identical with that followed in the Language Lessons in the Grammar Schools. The teacher, Miss Melvin, has availed herself of every opportunity to become thoroughly acquainted with the method, and is perfectly competent to instruct others in it.

The laboratory has been furnished with twenty-four working desks for scholars in analytical chemistry. The class is always full, and many are denied the privilege of joining, for lack of accommo-

dations. Mr. Coburn, the teacher, reports great interest in this branch of chemistry, and very satisfactory results.

One hundred and forty-four Grammar-school applicants for admission to the High School, entered in September. Sixteen others who were accepted, did not appear. The class during the first term averaged well with those of former years. The requirements in arithmetic and grammar, fifty per cent. of correct answers, will give a better class in September.

The graduating exercises of the school took place in Huntington Hall on the evening of June 29, as follows:—

ORDER OF EXERCISES.

ORCHESTRA. — Grand March. — “Home Club”	. . . . .	<i>Hardy.</i>
SINGING. — “When shall we three meet again?”	. . . . .	<i>M. P. King.</i>
THE MARCH OF ATTILA.		
	FREDERIC A. WOOD.	
INVENTIONS		<i>Written by Alice M. Colton.</i>
	ALICE M. COLTON.	
DR. ELISHA KENT KANE		<i>Written by Gertrude A. Chase.</i>
	MARGERY DRIVER.	
SINGING. — “Let the hills and vales resound”	. . . . .	<i>B. Richards.</i>
THE POET AND HIS SONGS		<i>H. W. Longfellow.</i>
	ALICE PERHAM.	
BELLS AND THEIR ASSOCIATIONS		<i>Written by Helen M. Floyd</i>
	HATTIE A. MANLEY.	
ORIGINAL TRANSLATION FROM CICERO		<i>By Emma L. Bradley.</i>
	EMMA L. BRADLEY.	
ORCHESTRA. — Overture. — “Banditenstreichs”	. . . . .	<i>Von Suppé.</i>
THE EXECUTION OF MONTROSE		<i>Aytoun.</i>
	FREDERICK W. BARNES.	
KANE’S ARCTIC EXPLORATION		<i>Written by Hattie A. Palmer.</i>
	HATTIE A. PALMER.	
SINGING. — “Prayer during Battle”	. . . . .	<i>F. H. Hummell.</i>
A LEGEND OF THE ST. LAWRENCE.		
	ALICE M. BATCHELDER.	
SPARTACUS TO THE GLADIATORS		<i>E. Kellogg.</i>
	ARTHUR L. CLARK.	
ORCHESTRA. — Selections from “Patience”	. . . . .	<i>Sullivan.</i>
“SIMON SAYS ‘THUMBS UP’”		<i>Written by Josephine Wilder.</i>
	MARY J. WOODWARD.	
MERCHANT OF VENICE. — Act IV, Scene 1	. . . . .	<i>Shakspeare.</i>
SINGING. — “Hark, the curfew’s solemn sound”	. . . . .	<i>Atwood.</i>

THE DIVER Schiller.
CHARLES A. SPALDING.

WHITEWASH Written by Lizzie D. Hanscom.
LIZZIE D. HANSCOM.

ROWING vs. FLOATING, WITH VALEDICTORY ADDRESS Written by
HERMAN W. HALEY.

PRESENTATION OF CARNEY MEDALS AND DIPLOMAS
BY SOLON W. STEVENS, ESQ.

SINGING OF CLASS ODE Written by Alice M. Batchelder.

[*Music by Alice M. Colton.*]

Classmates, fast the day is closing,
Now the parting hour draws near,
Farewell words must soon be spoken,
Words to all both sad and dear.

In our hearts we'll ever cherish
Memories of these halcyon days,
Memories of the friends who with us
Travelled o'er these pleasant ways.

Bright, indeed, has been our pathway
Up the steep of Wisdom's hill,
As, with each advancing footstep,
Paths of knowledge opened still.

Let us still mount boldly upward,
Let us *rather be than seem*;
But, until we've won a victory,
Let us not of honors dream.

GRADUATES FOR 1882.

FOUR YEARS' COURSE.

Patrick Richard Ducey.	Gertrude Alice Chase.
Frederick Lincoln Eno.	Juliette Butterfield Davis.
Herman Wadsworth Haley.	Grace Wright Gerrish.
Andrew James Halpine.	Margery Watson Driver.
Walter Henry Howe.	Lizzie Deering Hanscom.
Charles Edward Spalding.	Addie Mabel Hill.
Frederic Augustus Wood.	Maria Abbott Mack.
Sadie Hart Allen.	Hattie Augusta Palmer.
Alice Maud Batchelder.	Bertha Josephine Wilder.
Emma Louise Bradley.	Mary Woodward.
Katie Burrage.	

THREE YEARS' COURSE.

J. Munn Andrews.	Arthur Charles Coburn.
Frederick Willis Barnes.	Dennis James Devine.
Arthur Lincoln Clark.	Arthur Crowell Gerry.

Charles Edward Goulding.
 Frank Baker Hill.
 Owen Francis Horan.
 Frank Allen Hutchinson.
 Horace B. Lang.
 Joseph P. O'Neil.
 Harry Wood Ordway.
 Francis Benton Reed.
 George Stickney Wilson.
 Lincoln Wright.
 Lizzie Frances Brennan.
 Cora Blanche Blood.
 Mary Frances Carpenter.
 Minnie Louise Coburn.

Alice Maria Colton.
 Letta Maria Dows.
 Maria Antoinette Farnham.
 Blanche Elizabeth Fay.
 Ella Elizabeth Fleming.
 Nellie Louise Floyd.
 Maud Hadley.
 Carrie Maud Hart.
 Hattie Adelaide Manley.
 Katie Frances McCarthy.
 May Amelia Morse.
 Alice Perham.
 Bertha Comins Shattuck.
 Helen Livermore Tabor.

MEDAL SCHOLARS.

George S. Wilson.
 Patrick R. Ducey.
 J. Munn Andrews.

Harriet A. Palmer.
 Ella E. Fleming.
 Emma L. Bradley.

FREE TEXT-BOOKS.

This system, inaugurated September, 1881, is in successful operation. The teachers are of one opinion in regard to it, though they find it no slight matter to look after the books. The teachers and scholars are going through a system of instruction. I think that the books and other articles in use should be carefully inspected every term, and their condition observed by each Sub-committee. The truant officers have done most of the distributing, taken orders, and returned receipts for the same, and reported to the Superintendent.

The difficulties that have been overcome in the past give us courage to believe that those that are approaching may be less annoying.

In a few months books worn out and soiled will accumulate, and the problem will be what shall be done with them.

The financial report referred to the Committee on Text-Books is herewith presented.

Cost of Books, etc., in Public Schools to Dec. 20, 1881	\$11,958 98
Value of Books, etc., on Dec. 20, 1881	2,110 26
Total	<hr/> \$14,069 24
<i>Amount carried forward</i>	<hr/> \$14,069 24

<i>Amount brought forward</i>	\$14,069 24
Purchased from Dec. 20, 1881, to Dec. 20, 1882	4,346 76
Total amount expended to Dec. 20, 1882	\$18,416 00
Less stock on hand, Dec. 20, 1882	1,571 53
	<hr/> \$16,844 47
Less amount delivered to Evening Schools	\$125 68
“ “ “ “ Reform “	48 09
“ “ received from second-hand books sold, 106 75	279 92
	<hr/>
Cost of Books, etc., in Public Schools, Dec. 20, 1882	\$16,564 55
	<hr/>
Distributed to schools, Dec. 20, 1881	\$11,958 98
“ “ “ Dec. 20, 1882	4,605 57
	<hr/> \$16,564 55
	<hr/>

Respectfully submitted,

SOLON W. STEVENS.
 FRED WOODIES.
 D. P. GALLOUPE.
 JOHN A. SMITH.
 M. SEXTON.

LOWELL, Dec. 30, 1882.

CHANGES IN TEACHERS.

TRANSFERRED.

Viola A. Hamblett, from Intermediate No. 1 to Highland School.
 Marietta F. Crowley, from Primary No. 69 to Primary No. 29.

RESIGNED.

	Term of service.
Abbie G. Watson	Primary No. 3, 13 yrs.
D. Lilla Naylor	Primary No. 7, 2 “
Martha S. Williams	Primary No. 21, 31 “
Jennie F. Woodward	Primary No. 29, 11 “
Helen M. Brown	Primary No. 61, 5 “
Helen S. Durgin	Primary No. 72, 2 “
Edith A. Gove	Bartlett School, 7 “
Sophia P. Wetherbee	Bartlett School, 35 “
Mary A. Keyes	Green School, 4 “
Sarah E. Bailey	Moody School, 26 “

ELECTED.

Laura H. Palmer	to Primary No. 3.
Katie McOwen	to Primary No. 7.
Hattie A. Knowles	to Primary No. 21.
Ella E. Bradley	to Primary No. 61.
Mary J. Harrihan	to Primary No. 69.

Bridget T. Maguire	to Primary No. 72.
Hattie B. Frye	to Primary No. 79.
Flora H. Sprague	to Primary No. 80.
Minnie B. Chase	to Primary No. 81.
Francées M. Talbot	to Bartlett School.
Lola Cheney	to Bartlett School.
Carrie A. Miles	to Edson School.
Ella J. Carleton	to Green School.
Susie A. Huntoon	to Green School.
Clara A. Eaton	to Moody School.
Ada Martin	to Varnum School.

In August, Miss Ida Sheldon, for more than ten years a faithful, devoted teacher in the Green School, ceased from her labors. She was a young lady of many accomplishments, and much beloved by all who knew her.

ATTENDANCE.

. The attendance during the year is larger than last year by two hundred and sixty. The falling off during the last term, notwithstanding the large number of children that left to join the parochial school on Suffolk Street, was only sixty-seven. The number of boys belonging to the public schools December 20, was two hundred less than at the corresponding date last year, and the number of girls two hundred more.

The number of cases investigated by the truant officers during the last three years is as follows: 1880, 1,843; 1881, 1,590; 1882, 1,140. Undoubtedly there are many cases of real truancy not reached by the officers, because of the claim of membership in the parochial schools. The report of the truant officers is presented in full. It will be found to contain valuable information.

Whole number of cases investigated	1,140
Absentees	638
Truants	389
Working without certificates	48
New scholars	15
Wandering about the streets	23
Juvenile offenders	27

OF THE ABOVE NUMBER,

Arrested	91
Sentenced	25
Bailed	66
Visited second time	82

Visited third time	13
Certificates issued (between 14 and 16 years)	1,781
Certificates approved (between 10 and 14 years)	543

CONTAGIOUS DISEASES REPORTED BY THE BOARD OF HEALTH.

Diphtheria	59
Diphtheritic	4
Scarlet Fever	48
Scarlatina	25

In presenting the above report, we wish to state that in addition to the duties performed by us in former years, we have received and delivered all the books, stationery, etc., used in our schools during the past year. We have also kept a record of the certificates given by the teachers to children, between ten and fourteen years of age, where they are employed and when they must return to school, which has been very useful to us. When a child did not return at the proper time, we knew just where to find him at work. We have also kept many children, with such certificates, from going to work, when we found they could not read and write, as they are required to do by the statutes.

The rules of the School Committee and Board of Health, in relation to contagious diseases, have been enforced, as in former years, causing a great many of the cases of absence we report.

We have kept during the year a record of the children between fourteen and sixteen years of age, who could not read and write, and find that out of the 1,781 we have given certificates to, between those ages, that 543, or nearly thirty per cent., of them are unable to read and write.

The number of arrests (91), this year, was the largest we have ever made, but the number (25) sentenced was less than in the two former years, nearly all of them being sentenced at the wish of parents or guardians. The number arrested and bailed (66) have, many of them, become model scholars, and given but little if any trouble to their teachers or us.

The different manufacturing establishments have been visited during the year, and found to be generally conforming to the laws, some few cases having been found where children have been kept at work longer than allowed by their certificates.

For the uniform kindness and assistance of the Superintendent of Schools, School Committee, and Teachers of Lowell, we return our sincere thanks.

Respectfully submitted,

BICKFORD LANG,
WM. H. BERMINGHAM,
Truant Commissioners.

I again return my acknowledgments to the Committee for continued courtesies.

CHARLES MORRILL,
Superintendent Public Schools.

APPENDIX.

APPENDIX.

A.

LAWS

RELATING TO THE EMPLOYMENT OF CHILDREN, AND REGULATIONS RESPECTING THEM.

No child under the age of ten years shall be employed in any manufacturing, mechanical, or mercantile establishment in this Commonwealth, and any parent or guardian who permits such employment shall for such offence forfeit a sum of not less than twenty nor more than fifty dollars, for the use of the public schools of the city or town.

No child under the age of fourteen years shall be so employed, except during the vacations of the public schools, unless during the year next preceding such employment he has attended some public or private day school, under teachers approved by the school committee of the place where such school is kept, at least twenty weeks, which may be divided into two terms, each of ten consecutive weeks, so far as the arrangement of school terms will allow; nor shall such employment continue unless such child shall attend school as herein provided, in each and every year; and no child shall be so employed who does not present a certificate made by or under the direction of the school committee of his compliance with the requirements of this act; *provided, however*, that a regular attendance during the continuance of such employment in any school known as a half-time day school, or an attendance in any public or private day school, twenty weeks as above stated, may be accepted by said school committee as a substitute for the attendance herein required.

Every owner, superintendent, or overseer in any establishment above named, who employs, or permits to be employed, any child in violation of the second section of this act, and every parent or guardian who permits such employment, shall for the first offence forfeit a sum not less than twenty nor more than fifty dollars for the use of the public schools of such city or town.

The truant officers shall, at least once in every term, and as often as the school committee require, visit the establishments described by this act, in their several cities and towns, and inquire into the situation of the children employed therein, ascertain whether the provisions of this act are duly observed, and report all violations to the school committee.

Every owner, superintendent, or overseer of any manufacturing, mechanical, or mercantile establishment in this Commonwealth, shall require and keep on file a certificate of the age and place of birth of every minor child under the age of sixteen years employed in said establishment, so long as such minor shall be so employed, which certificate shall also state, in the case of a minor under the age of fourteen years, the amount of his or her school attendance during the year next preceding such employment; said certificate shall be signed by a member of the school committee of the place where such attendance has been had, or some one authorized by them; and the form of said certificate shall be furnished by the Secretary of the State Board of Education, and shall be approved by the Attorney-General.

In case no such certificate shall have been required by such owner, superintendent, or overseer, then such employment shall be deemed to have been a violation of the second section of chapter fifty-two of the acts of the year eighteen hundred and seventy-six.

The truant officers may demand the names of the minor children under the age of sixteen years employed in the establishments above named in their several cities and towns, and may require that the certificates of age and school attendance prescribed in this act shall be produced for their inspection; and if the name and certificate as aforesaid be not produced in any case, it shall be *prima facie* evidence that the employment of such child is illegal.

On and after the first day of May, eighteen hundred and eighty, no child under fourteen years of age shall be employed in any manufacturing, mechanical, or mercantile establishment, while the public schools in the city or town where such child lives are in session, unless such child can read and write. Every owner, superintendent, or overseer in any establishment above named, who employs, or permits to be employed, any child in violation of this section, and every parent or guardian who permits such employment, shall for every such offence forfeit a sum of not less than twenty nor more than fifty dollars for the use of the public schools of such city or town.

APRIL 25, 1880.

LEGAL FORM OF CERTIFICATE.

	Lowell,	188
THIS CERTIFIES that	, born in	,
is	years	months old, and has attended school in Lowell
		weeks, during the year next preceding this date, and has
attended school twenty weeks since		188
	Signed,	
Approved,		
	Duly authorized by the School Committee.	

The following persons are authorized to sign employment certificates: Superintendent of Public Schools, Truant Officers, Teachers of the Public Schools, Teachers of the Parochial Schools.

CHARLES MORRILL,

Secretary School Committee.

LOWELL, Dec. 1882.

B.**SALARIES OF TEACHERS.****HIGH SCHOOL.**

Principal	\$2,000 00
First male assistant	1,800 00
First female assistant	800 00
Other female assistants, first year	600 00
“ “ “ second year	650 00
“ “ “ after second year	700 00

GRAMMAR SCHOOLS.

Principal (males)	\$1,700 00
Assistants, first year	450 00
“ second year	500 00
“ third year and after	600 00
Teacher of penmanship	1,200 00
Teacher of vocal music	1,200 00

PRIMARY SCHOOLS.

Teachers, first year	\$450 00
“ second year	500 00
“ third year and after	600 00

TEMPORARY TEACHERS.

Male teachers, for every school day's service	\$3 00
Female teachers in High School, for every school-day's service	1 75
Female teachers in other schools, for every school-day's service	1 00
And after three months' service	1 25

EVENING SCHOOLS.

Principals, High School, per evening	\$2 00
“ Elementary, “ “	1 50
Assistants, “ “	1 00

C.

SERIES OF QUESTIONS PROPOSED FOR THE EXAMINATION OF APPLICANTS TO ENTER THE HIGH SCHOOL.

JULY EXAMINATION.**QUESTIONS IN HISTORY.**

1. What two attempts were made by the French Huguenots to settle in America?
2. Give an account of De Soto's expedition.

3. On what did the English base their claim to this country?
4. What circumstance led to the introduction of negro slavery into the Colonies?
5. Name four of the most distinguished passengers of the *Mayflower*.
6. Give the history of the establishment of Harvard College.
7. How did Stuyvesant rule New York?
8. What was the origin of the settlement of Delaware?
9. What was the object of the French and Indian War?
10. Give an account of the expedition against Fort Duquesne during this war.
11. What principle of taxation did the colonists contend for?
12. Where did the first three Congresses meet?
13. Tell what you know of Shays' Rebellion.
14. Who was the first Vice-President?
15. What were the causes of the second war with England?
16. Name the commanders of the three armies raised for the campaign of 1813.
17. What was the most important event during Monroe's administration?
18. What was the cause of the war with Mexico?
19. What three proclamations were issued in April, 1861?
20. Which three ex-Presidents died on the 4th of July?

QUESTIONS IN GEOGRAPHY.

1. Name the four great river and lake systems of North America.
2. What large city on the Pacific coast?
3. What are the tropics, and where situated?
4. What natural advantages have the Central States for commerce?
5. Bound Colorado.
6. What large rivers rise in Minnesota?
7. To what country does Alaska belong?
8. Name the waters through which a vessel would pass in going from Philadelphia to Washington.
9. What is the capital of Ohio?
10. What are the chief commercial centres of the Middle Atlantic States?
11. Where is Cape Race? What cape on the western coast of Mexico?
12. What is the greatest tributary of the Amazon from the south?
13. What waters separate the British Isles from the continent?
14. What is the capital of Russia, and where is it situated?
15. Name the principal mountain ranges of High Europe.
16. What large gulf and what large sea south of Asia?
17. What river drains the northern part of the Chinese Empire?
18. Where is Venice? Mecca? Canton? Halifax?
19. Describe the climate of Africa.
20. What is the most important city of Australia?

QUESTIONS IN GRAMMAR.

1. Write a sentence in which there shall be a verbal noun from the word *go*. Write a sentence in which there shall be an abstract noun from the adjective *wise*.

2. Write the plural of *sister-in-law*, *deer*, *mulatto*, *ally*, *memorandum*.
3. Write the possessive singular and plural of *hero*, *governess*, *lady*, *attorney*, *child*.
4. Whoever comes is admitted. Parse *whoever*.
5. He is one of the most studious boys that I ever saw. Parse *that*.
6. "Let not ambition mock their useful toil." Change *mock* to the passive voice without altering the sense.
7. Write a sentence in which there shall be an irregular transitive verb in the perfect potential.
8. Write all the participles of the verb *teach*.
9. Write the synopsis of the verb *mistake* in the indicative and potential (active).
10. Write the first person singular of the verb *lay* in the four forms, common, emphatic, progressive, and passive, naming each one.
11. Point out two phrases in the following sentence: "The *night* being clear and cool, in the morning the grass was covered with dew."
12. Parse the word *night* in the sentence above.
13. Separate the following sentence into its propositions, and tell which are subordinate: "When the repast was over, the hermit spoke and said, 'Tell me by what chance thou hast been brought hither.'"
14. Parse *mine* in the sentence: "It is not hers, but *mine*."
15. What is the subject of *will prove*, and what is the object, in the sentence: "Adding up the column *will prove* that the answer is correct."
- 16 and 17. Name the mode and tense of *would do*, also of *were*, in the sentence: "I *would not* do that if I *were* you."
18. "It is not I *whom* you should find fault with." Why is *whom* objective?
19. Join all the following quotations into one connected sentence: "The sails being ready"; "The ship in the stream"; "Busy little boats darting about her."
20. Correct any mistakes, and give reasons for the correction, in these sentences: "The night was dark, neither moon nor stars were to be seen"; "They that help others, all will respect."

QUESTIONS IN ARITHMETIC.

1. Divide .0281562 by seven thousand twenty-five ten thousandths, and express the answer in words.
2. If I have 1 acre 16 rods 84 feet of land, how many lots can I sell from it, each lot being $6\frac{2}{3}$ rods long and $3\frac{7}{11}$ rods wide?
3. Find the greatest common divisor of 3379, 4469, and 5559.
4. Find the least common multiple of 336, 252, and 420.
5. Reduce $\frac{3\frac{1}{5}}{16\frac{2}{3}} \times \frac{15}{11\frac{5}{7}} \div 7\frac{1}{2}\frac{3}{0}$ to the simplest form.
6. What is one hundredth part of 31 miles, 3 furlongs, 20 rods, 10 feet? (Answer in furlongs, rods, etc.)
7. If $\frac{3}{8}$ of a ship cost \$6,000, what would $\frac{7}{10}$ of the rest of the ship cost?
8. Reduce $\frac{1\frac{2}{5}}{300} \div \frac{8\frac{1}{3}}{1\frac{1}{4}}$ to a decimal fraction.

9. What fraction of a boy's money does he lose by buying oranges at the rate of 9 for 30 cents, and selling them at the rate of 2 for 5 cents?
10. Reduce 1 shilling, 10 pence, and $3\frac{1}{5}$ farthings to the decimal of a pound.
11. Define the following: *Premium—Policy—Avails of a Note—Commission.*
12. If I purchase goods for \$170 and sell them for \$151.30, what per cent. do I lose?
13. At what per cent. will \$2,400 amount to \$2,813, in 3 years 5 months 9 days?
14. What is the compound interest of \$2,000, for 2 years 5 months 10 days, $4\frac{1}{2}$ per cent.?
15. What is the interest of \$3,200 for 7 years 6 months 12 days, at $7\frac{1}{2}$ per cent.?
16. What is the cost of a draft for \$800, at $1\frac{1}{2}$ per cent. premium?
17. If it cost \$7.55 to ride $87\frac{2}{3}$ miles, what will it cost to ride $879\frac{1}{11}$ miles?
18. If 10 men in $6\frac{1}{2}$ days can make 320 pairs of shoes, working 8 hours per day, how many hours per day must 23 men work to make 800 pairs of shoes in 10 days?
19. What mixed number is the square root of the mixed number $3\frac{7}{9}\frac{9}{80}\frac{8}{1}$?
20. Find the cube root of 5929741.

SPELLING.

Shriek, bounteous, persuasion, until, obliging, grammar, grieve, analyze, privilege, negotiate, surgeon, paragraph, ceiling, banana, reach, naphtha, digestible, diligent, prejudice, civilize.

QUESTIONS IN MUSIC.

1. Make the different notes and rests.
2. Write the figures indicating the different notes and rests.
3. State and define the properties of a tone.
4. How are these properties represented?
5. Write the names of the measures and the figures indicating them. Why so named?
6. Write the different letters used in music. Does a sharp or a flat change the pitch of a letter?
7. Minor scale. How many tones, and what are the intervals? Write the syllables.
8. Chromatic scale. How many tones, and what are the intervals? Write the syllables.
9. Major scale. How many tones, and what are the intervals? Write the syllables.
10. Write the signatures for the keys of C, F, D, E, A \flat , and B \flat .
11. Sing the major diatonic scale.
12. Sing the scale with intervals of seconds, thirds, and fourths.
13. Sing the scale with intervals of fifths, sixths, sevenths, and octaves.
14. Sing the harmonic minor scale.
15. Sing the melodic minor scale.
16. Sing the chromatic scale.

17. Sing at sight in key of C, double measure.
18. Sing at sight in key of F, triple measure.
19. Sing at sight in key of D, quadruple measure.
20. Sing at sight in key of B \flat , sextuple measure.

D.

TEXT-BOOKS USED IN THE PUBLIC SCHOOLS.

Hillard's Readers, Franklin Series.

PRIMARY SCHOOLS.

First Reader.
 Second Reader.
 Third Reader.
 Franklin Primary Arithmetic.
 Miss Stickney's Child's Book of Language.
 Monroe's Reading Charts.
 Primary Music Reader.

GRAMMAR SCHOOLS.

Fourth Reader.
 Intermediate Reader.
 Fifth Reader.
 Bradbury's Eaton's Practical Arithmetic.
 Greene's Grammar.
 Knox and Whitney's Elementary Lessons in English.
 Guyot's Elementary Geography.
 Guyot's Intermediate Geography, Massachusetts Edition.
 Anderson's Common School History of the United States.
 Worcester's New Pronouncing Spelling Book.
 Thomson's Intellectual Mental Arithmetic.
 Duntonian Writing Books.
 Smith's Drawing Books.
 Hooker's Child's Book of Nature permitted as a reading book.
 Goodrich's Child's Book of United States History.
 Intermediate Music Reader.
 Fourth Abridged Music Lessons.

HIGH SCHOOL.

Allen and Greenough's Latin Grammar.
 Leighton's Latin Lessons.
 Allen and Greenough's Cæsar.
 Allen and Greenough's Virgil.
 Allen and Greenough's Cicero.
 Allen and Greenough's Ovid.
 Allen's Latin Composition.

White's Latin Lexicon.
Goodwin's Greek Grammar.
White's Greek Lessons.
Goodwin's Greek Reader.
Homer.
Liddell and Scott's Greek Lexicon (abridged).
Bôcher's Otto's French Grammar.
Bôcher's Otto's French Reader.
Fisher's Easy French Readings.
Bôcher's College Plays.
James and More's French Dictionary.
Otto's German Grammar.
Otto's German Reader.
Adler's German Dictionary.
Eaton's Practical Arithmetic.
Eaton's High School Arithmetic.
Eaton's Algebra.
Bradbury's Geometry.
Bradbury's Trigonometry.
Davies' Surveying.
Greene's English Grammar.
Quackenbos' First Lessons in English Composition.
Class Book of Prose and Poetry.
Kellogg's Rhetoric.
Brooke's English Literature.
Underwood's Hand-book of American Authors.
Selected American Poems.
Selected Ballads and Lyrics.
Swinton's Outlines of History.
Berard's History of England.
Leighton's History of Rome.
Pennell's History of Greece.
Pennell's History of Rome.
Martin's Civil Government.
Winslow's Intellectual Philosophy.
Cooley's Natural Philosophy.
Avery's Natural Philosophy.
Kiddle's Elementary Astronomy.
Steele's Chemistry.
Eliot and Storer's Manual of Chemistry.
Eliot and Storer's Qualitative Analysis.
Berlstein's Qualitative Analysis.
Dana's Geological Story.
Wood's Botanist and Florist.
Hutchinson's Physiology.
Warren's Physical Geography.
Tozer's Classical Geography.
Meserve's Book-keeping.

Eichberg's Music Reader.
 Upton's Infantry Tactics.
 Arnott's Physics.
 Todhunter's Algebra.
 Wentworth's Geometry.
 Wheeler's Trigonometry.
 Bryce's Æneid (last six books).

E.

COURSE OF STUDY FOR THE PRIMARY SCHOOLS.

FIRST YEAR.

Sixth Class—Monroe's Charts, and Franklin First Reader. Begin with words written upon the blackboard, using the names of familiar objects, and words expressing familiar acts.

Combine words into groups and sentences.

Pay particular attention to *tones* and *inflection*.

Spell the words in columns, by sounds.

Develop the idea of number to ten, by the use of objects. Count to one hundred on the numeral frame.

Teach the construction of letters and figures, and the simplest form of script letters, using slate and blackboard.

Fifth Class—Monroe's Charts, and First Reader. Spell as in Sixth Class.

Write words, groups of words, and sentences upon the blackboard, and require pupils to copy upon the slate. Give special attention to the forms of the letters.

Add and subtract small numbers, using the numeral frame and objects.

Teach Roman numerals to L.

Follow the Grube Method in numbers as far as to 4.

Practise object teaching, using such objects as are familiar to the child.

SECOND YEAR.

Fourth Class—Second Reader. Practise "Enunciation Exercises" daily.

Spell, by letters and by sounds, words in columns and in reading lessons.

Continue to teach the simplest form of script letters.

Teach Arithmetic orally. Grube Method as high as 8.

Teach Roman numerals to M.

Third Class—Second and Third Readers. Practise "Enunciation Exercises" as in the Fourth Class.

Teach the simplest form of script letters as in the Fourth Class, and write sentences from dictation upon the slate.

Teach Arithmetic, using the Franklin Primary, and see that the pupils read the questions fluently and correctly before solving them. Teach multiplication table to 8 X 8.

THIRD YEAR.

Second Class — Third Reader. Daily practice of exercises in enunciation. Spell words in columns and in reading lessons, by letters and by sounds. Teach the meaning of the words found in the reading lessons, and require scholars to use their own language in defining. Correct all faults in expression.

Teach all script letters, and require words and sentences to be written from dictation, upon paper.

Review the Arithmetic, taught during the second year, by oral questions similar to those in the text-book, and advance as far as practicable. Teach multiplication table to 10×10 .

First Class — Third Reader. Exercises in enunciation, spelling, definitions, etc., as in Second Class.

Use Miss Stiekney's Child's Book of Language No. 1.

Review as in Second Class, and complete the Arithmetic, if found practicable. Teach multiplication table to 12×12 .

Drawing should be taught in all the classes except the Sixth. In drawing and singing, follow the directions of the special teachers.

In each school a few minutes should be devoted at every session to physical exercises.

Monroe's Charts may be used at pleasure throughout the course.

F.

GRAMMAR SCHOOLS.

FIRST YEAR.

Eighth Class — Fourth Reader. Especial attention should be given to the Introductory Exercises, and to the lessons in spelling and defining at the beginning of each reading lesson.

Worcester's New Pronouncing Speller, to page 29.

Guyot's Elementary Geography, to Part 2.

Written Arithmetic, from dictation; numeration and notation, addition, and multiplication; amounts not to exceed a million.

Seventh Class — Fourth Reader; Introductory Exercises, spelling and defining as in Eighth Class.

Worcester's New Pronouncing Speller, to page 59.

Guyot's Elementary Geography, to Part 3.

Written Arithmetic, from dictation; numeration and notation, addition and multiplication, subtraction and long division, not to exceed three periods. In subtraction, not more than two figures in the minuend to be less than the figures below them, and in division the divisor not to exceed 25.

SECOND YEAR.

Sixth Class — Fourth Reader; * spelling and defining and Introductory Exercises, as far as Inflection.

* Child's Book of Nature permitted as a reading book to alternate with the Intermediate Reader, in the Sixth, Fifth, Fourth, and Third Classes.

Worcester's New Pronouncing Speller, to page 85.

Guyot's Elementary Geography, to Africa.

Arithmetic, to Common Fractions, page 73, omitting sections 79, 80, 81.

Elementary Lessons in English, to page 67.

Fifth Class—Hillard's Intermediate Reader, with daily drill on the Introductory Exercises.

Worcester's New Pronouncing Speller, to page 111.

Guyot's Elementary Geography, completed and reviewed.

Colburn's First Lessons, sections 9, 10, and 11.

Arithmetic, from Common Fractions, page 73, to Decimals, page 102.

Elementary Lessons in English, to page 95.

THIRD YEAR.

Fourth Class—Hillard's Intermediate Reader. Daily drill as in Fifth Class.

Worcester's New Pronouncing Speller, to page 131.

Guyot's Intermediate Geography, to Middle Atlantic States, page 31—omitting from Human Family, page 8, to Commerce and Location of Cities, page 11; Separate States, page 25, to page 27.

Arithmetic, from Decimals, page 102, to Compound Numbers, page 134.

Elementary Lessons in English, to page 137.

Third Class—Fifth Reader; systematic teaching of the Introductory Treatise and reading lessons.

Worcester's New Pronouncing Speller, to page 145.

Guyot's Intermediate Geography, from Middle Atlantic States, page 31, to South America, page 59—omitting Separate States, page 30, to Map Drawing, page 33; Separate States, page 37, to Map Drawing, page 39; Separate States, page 43, to bottom of page 47; Separate States, page 51, to Map Drawing, page 52.

Thomson's Intellectual Arithmetic, to Decimals.

Arithmetic, from Compound Numbers, page 134, to Percentage, page 160.

Finish Elementary Lessons in English.

Anderson's Grammar School History, as a reading book, and to be taught "by reading and familiar conversation," to page 100; few dates to be memorized.

FOURTH YEAR.

Second Class—Fifth Reader; teaching of the Introductory Treatise, and reading lessons, as in Third Class.

Worcester's New Pronouncing Speller, to page 158.

Guyot's Intermediate Geography, from South America, page 59, to Geography of Massachusetts, page 102—omitting Countries of South America, page 63, to General Review, page 65; Countries of Europe, page 71, to Asia, page 79; Countries of Asia, page 82, to Africa, page 87; Countries of Africa, page 90, to Australia, page 93; Review of Eastern Hemisphere, page 96, to Geography of Massachusetts, page 102.

Thomson's Intellectual Arithmetic, from Decimals to Interest.

Arithmetic, from Percentage, page 160, to Equation of Payments, page 209.

Review Elementary Lessons in English.

Anderson's Grammar School History, from the beginning, to Madison's Administration.

FIFTH YEAR.

First Class—Fifth Reader, as in Second Class.

Worcester's New Pronouncing Speller; the whole book.

Guyot's Intermediate Geography, from Massachusetts, page 102, to tables, and review the book.

Arithmetic, to Solids, page 263.

Thomson's Intellectual Arithmetic, from Interest to the end of the book, and review.

Greene's Grammar.

Anderson's Grammar School History, finished and reviewed.

Composition, Writing, Drawing, Music, and Elements of Book-keeping through the whole course.

Declamation by the boys in the First and Second Classes once a month.

Teachers should begin to teach the Geography of Massachusetts, County of Middlesex, and City of Lowell, as early in the course as practicable, chiefly in conversational lessons during the first and second years.

Parts of the Geography omitted are to be used as reading lessons.

G.

HIGH SCHOOL.

ENGLISH COURSE.

FIRST YEAR. *First Half*—Algebra, Ancient History, English Composition, Drawing. *Second Half*—Algebra, English History, Natural Philosophy, Drawing.

SECOND YEAR. *First Half*—Geometry, Physical Geography, Natural Philosophy. *Second Half*—Geometry, Chemistry, English Grammar.

THIRD YEAR. *First Half*—Arithmetic, Astronomy, Physiology. *Second Half*—Rhetoric, English Literature, Political Science, or Botany.

FOURTH YEAR. *First Half*—Intellectual Philosophy, English Literature, French, German, or Latin. *Second Half*—Botany, Political Science, French, German, or Latin.

Composition, Declamation, Reading and Music, and Military Instruction are required throughout the course. Trigonometry, Surveying, Geology, Book-keeping, Analytical Chemistry, Greek, Latin, French, and German are optional studies. Any optional study may take the place of any English study.

Each scholar is expected to pursue three regular studies, but is allowed to take a smaller number when health demands it, and to remain as a member of the school until all the studies of the course are completed. Not more than three regular written examinations are permitted during each half

CLASSICAL COURSE.

FIRST YEAR. *First Half*—Latin Grammar and Reader, English Composition, Algebra, Drawing. *Second Half*—Latin Reader, Cæsar, Greek and Roman History, Algebra, Drawing.

SECOND YEAR. *First Half*—Cæsar, Physics, Chemistry, Geography. *Second Half*—Cæsar, Ovid, Greek Grammar and Lessons, Latin Composition.

THIRD YEAR. *First Half*—Virgil, Greek Reader, Physical Geography, Arithmetic reviewed, Logarithms, Latin Composition, Greek Composition. *Second Half*—Virgil, Greek Reader, Ancient and Modern Geography, Algebra and Geometry reviewed, Latin Composition, Greek Composition.

FOURTH YEAR. *First Half*—Cicero, Ovid, Homer, Latin Composition, Greek Composition, French, or German. *Second Half*—Cicero, Homer, French, or German, Latin Composition, Greek Composition, review of course.

In the Classical Course, the same rules obtain as in the English Course, with reference to studies pursued throughout the course, the number of daily recitations, and number of written examinations.

H.

NAMES OF TEACHERS.

Schools.	Teachers.	Elected.	Salaries.	Residences.
High . . .	Chas. C. Chase, Prin. . .	1845	\$2,000	11 Nesmith st.
	Frank F. Coburn . . .	1880	1,800	62 Moore st.
	Mary A. Webster . . .	1860	800	17 Varney st.
	Marietta Melvin . . .	1859	700	381 Merrimack st.
	Elizabeth McDaniels . .	1868	700	162 Stackpole st.
	Harriet C. Hovey . . .	1870	700	12 Fourth st.
	Charlotte E. Draper . .	1870	700	37 Elm st.
	Alice J. Chase	1877	700	158 Stackpole st.
	M. Jennie Keese	1878	700	4 Richardson st.
	Rose A. Jordan	1878	700	6 Mass. corp.
Bartlett .	Samuel Bement, Prin. . .	1851	1,700	428 Merrimack st.
	Marianne B. Kent . . .	1859	600	428 Merrimack st.
	Abbie E. French	1874	600	40 Marion st.
	Lucy C. Dinsmore . . .	1881	450	35 Grove st.
	Belle A. Prescott . . .	1878	600	29 Mt. Washington st.
	M. Ida Howe	1873	600	28 Third st.
	Frances M. Talbot . . .	1882	450	116 Cross st.
	Lola Cheney	1882	450	142 Worthen st.
	Amy L. Tucke	1879	500	92 Fletcher st.
	Geo. W. Howe, Prin. . .	1880	1,700	28 Third st.
Colburn .	Elizabeth W. Frost . . .	1857	600	Fairmount st.
	Sarah J. Crosby	1868	600	151 Gorham st.
	Susan M. Andrews . . .	1864	600	42 Walnut st.
	Mary A. Hammill	1875	600	24 Linden st.
	Kate G. McLaughlin . .	1878	600	62 Suffolk st.
	Arvilla L. Reader . . .	1871	600	106 Appleton st.

Schools.	Teachers.	Elected.	Salaries.	Residences.
Edson	C. W. Burbank, Prin.	1872	1,700	153 School st.
	Mary E. Stone	1874	600	13 Cottage st.
	Maria C. R. Swan	1862	600	75 Appleton st.
	Anna A. Sargent	1864	600	79 Appleton st.
	Mary F. Carleton	1856	600	42 Chapel st.
	Fannie A. Scripture	1873	600	269 Central st.
	Mary A. Balch	1865	600	81 Appleton st.
	Lizzie N. Smith	1877	600	126 Howard st.
	Nettie E. Carleton	1867	600	42 Chapel st.
	Rosalie T. Burns	1878	600	7 Prescott corp.
	Kate F. Hayes	1879	600	13 Floyd st.
	Nellie Keefe	1879	600	41 Cedar st.
	Carrie A. Miles	1882	450	18 Tyler st.
Highland	Chas. W. Morey, Prin.	1880	1,700	43 Sixth st.
	Etta M. Ramsdell	1878	600	205 Westford st.
	Alice M. Clark	1878	600	46 Chapel st.
	Abbie F. Woodward	1869	600	73 Branch st.
	Luella A. Wardwell	1870	600	30 School st.
	Fannie M. Clark	1874	600	205 Westford st.
	Mary F. Burnham	1879	600	129 Howard st.
	Viola A. Hamblett	1876	600	60 School st.
	Addie F. Bennett	1882	450	126 Walker st.
	A. L. Bacheller, Prin.	1874	1,700	287 Central st.
Green	Ruth B. Bailey	1869	600	200 Moody st.
	Annie E. Richardson	1871	600	45 Merrimack st.
	Lizzie A. Nolan	1876	600	74 Mt. Vernon st.
	Clara A. Hanaford	1869	600	74 Mt. Vernon st.
	Leslie A. Huntoon	1882	450	11 Butterfield st.
	Lena A. Gookin	1880	500	79 Summer st.
	Emma L. Davenport	1876	600	19 Mt. Washington st.
	Ella J. Carleton	1882	450	316 Bridge st.
	Geo. H. Conley, Prin.	1876	1,700	147 School st.
Mann	Frances M. Webster	1873	600	17 Varney st.
	Laura F. Howe	1856	600	166 Stackpole st.
	Celestia P. Chase	1867	600	61 Tilden st.
	Julia M. Healey	1870	600	20 Bowers st.
	Nellie F. Murphy	1878	600	50 Elm st.
	Joseph Peabody, Prin.	1856	1,700	152 Appleton st.
Moody	Mary E. Way	1858	600	22 Tyler st.
	Alice M. Sanborn	1881	450	27 Clay st.
	Mary E. Hardman	1873	600	158 Stackpole st.
	Cora V. Barnard	1874	600	14 Bridge st.
	Laura J. Pindar	1856	600	35 Tyler st.
	Clara A. Eaton	1882	450	11 Ames st.
	Frances E. Hardman	1873	600	158 Stackpole st.
	Frances E. Garity	1874	600	8 Third st.
Varnum	A. K. Whitcomb, Prin.	1878	1,700	Twelfth st.
	Georgiana F. Vinton	1872	600	32 Fourth st.
	Harriet Bradley	1854	600	38 Fourth st.

Schools.	Teachers.	Elected.	Salaries.	Residences.
Varnum	Minnie F. Wing . . .	1879	600	36 Hampshire st.
	Sarah A. Bradley . . .	1857	600	145 Bridge st.
	Alice R. Keese . . .	1881	450	4 Richardson st.
	Maria W. Roberts . . .	1875	600	11 Fifth st.
	Ada Martin	1882	450	Robbins st.

TEACHER OF PENMANSHIP AND DRAWING.

Bertram Harrison . . .	1865	1,200	15 Arlington st.
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TEACHER OF VOCAL MUSIC.

	George F. Willey . . .	1866	1,200	32 Appleton st.
Primary	1, Mercena F. Whitehorn,	1877	600	389 Beacon st.
	2, Annie S. Harlow . . .	1873	600	23 Pawtucket st.
	3, Laura H. Palmer . . .	1882	450	167 Bridge st.
	4, Lucy F. Carleton . . .	1855	600	42 Chapel st.
	5, Ellen A. Stillings . . .	1875	600	107 Howard st.
	6, Ella M. Plumado . . .	1878	600	19 Lane st.
	7, Katie E. McOwen . . .	1882	450	88 South st.
	8, Martha A. Franklin . . .	1866	600	67 Vernon st.
	9, Nellie MacDonald . . .	1878	600	84 Prince st.
	10, Martha A. Neal . . .	1847	600	11 Dodge st.
	11, Isabella V. McAnulty . .	1867	600	7 Hurd st.
	12, Minnie C. Smith . . .	1877	600	130 Appleton st.
	13, Cornelia M. Davis . . .	1871	600	40 Rock st.
	14, Marietta Hill	1870	600	50 Fairmount st.
	15, Marietta McEvoy . . .	1881	450	5 Agawam st.
	16, Nellie Kohawn	1877	600	31 Willow st.
	17, Sarah C. Fiske	1866	600	134 Appleton st.
	18, Eliza Cowley	1857	600	178 Lawrence st.
	19, Alice T. Owens	1878	600	45 Walnut st.
	20, Mary L. McSorley . . .	1879	600	20 Ash st.
	21, Hattie A. Knowles . . .	1882	450	51 Hudson st.
	22, Ella E. Gardner	1871	600	4 Mt. Washington st.
	23, Ellen A. Corbett . . .	1878	600	65 Gorham st.
	24, Ellen A. Bridge	1857	600	54 Chapel st.
	25, Aurelia L. Howe	1844	600	166 Stackpole st.
	26, Charlotte E. Brown . . .	1870	600	158 Fletcher st.
	27, Mary E. Drew	1868	600	28 Wamesit st.
	28, Mary E. Corbett	1878	600	65 Gorham st.
	29, Marietta F. Crowley . .	1879	600	23 Marion st.
	30, Nellie T. O'Grady . . .	1881	450	59 Newhall st.
	31, Laura E. Lee	1873	600	141 Grand st.
	32, Ellen F. Coughlan . . .	1853	600	15 Austin st.
	33, Amanda M. Hadley . . .	1870	600	64 Lincoln st.
	34, Lizzie S. Lowe	1857	600	3 Nichols st.
	35, Clara A. Emerson . . .	1869	600	17 Ash st.
	36, Mary A. Beard	1844	600	22 Coral st.
	38, Lottie M. Furnald . . .	1880	500	20 Mt. Washington st.

Schools.	Teachers.	Elected.	Salaries.	Residences.
Primary 39,	Abby L. Sargent . . .	1873	600	110 Stackpole st.
40,	Sarah E. Scales . . .	1866	600	63 Westford st.
41,	Lilla J. Greenhalge . .	1871	600	10 Ash st.
42,	Lizzie M. Hadley . . .	1869	600	177 Moody st.
43,	Nellie M. Brown . . .	1865	600	158 Fletcher st.
44,	Mary L. Hill	1858	600	126 Worthen st.
45,	Ellen M. White	1863	600	89 Grove st.
46,	Ella A. Bailey	1869	600	164 Bridge st.
47,	Mary F. Beane	1879	600	78 Tenth st.
48,	Eliza A. Davis	1881	450	40 Rock st.
49,	Sara R. Swan	1876	600	51 Fourth st.
50,	Marion J. Stevenson . .	1878	600	45 Princeton st.
51,	Mary J. Alger	1868	600	54 Chapel st.
52,	Lucretia A. Day	1864	600	274 Central st.
53,	Charlotte McDaniels . .	1878	600	162 Stackpole st.
54,	Agnes I. Meldrum . . .	1876	600	33 Elm st.
55,	Stella J. Allen	1879	600	1 Myrtle st.
56,	Elizabeth A. Balch . . .	1873	600	1 Fairview st.
57,	Belle T. Vinal	1873	600	6 Simpson st.
58,	Ellen M. Holden	1876	600	Riverside st.
59,	Alice T. Lee	1878	600	113 Lawrence st.
60,	Jennie C. Boardman . . .	1877	600	64 Fremont st.
61,	Ella E. Bradley	1882	450	10 Sixth st.
62,	Clara B. Horne	1877	600	16 So. Highland st.
63,	Emma J. Miller	1877	600	96 Fletcher st.
64,	Delia T. Brady	1877	600	375 Central st.
65,	M. Carrie Stiles	1878	600	32 Varney st.
66,	Katie F. Fay	1880	500	94 Stackpole st.
67,	Clementine H. Bowers,	1876	600	18 Loring st.
68,	Mary McLaughlin	1879	600	234 Lawrence st.
69,	Mary J. Harrihan	1882	450	159 Market st.
70,	Abbie V. Wheeler	1879	600	185 Moody st.
71,	Mary J. McCarry	1881	450	176 Gorham st.
72,	Bridget T. McGuire . . .	1882	450	13 Hudson st.
73,	Mary J. Meade	1880	500	1 Clark st.
74,	Anna Kohawn	1879	600	31 Willow st.
75,	Minnie I. A. Tibbetts . .	1880	500	13 Eighth st.
76,	Katie G. Jones	1880	500	49 Andover st.
77,	Ida J. Flint	1880	500	142 Liberty st.
78,	Eva M. Hardy	1881	500	4 Dutton st.
79,	Hattie B. Frye	1882	450	Bowers, c. Mt. W.
80,	Flora H. Sprague	1882	450	14 School st.
81,	Minnie B. Chase	1882	450	Mammoth ave.
Mixed 1,	Elizabeth A. Cotting . .	1876	600	64 Baldwin st.
2,	Laura J. Gould	1874	600	Varnum ave.

J.

SUMMARY OF THE ANNUAL RETURNS

OF THE

PUBLIC SCHOOLS OF THE CITY OF LOWELL,

FOR THE YEAR ENDING DECEMBER 22, 1882.

SCHOOL.	LOCATION.	No. pupils belonging, Dec. 20, 1882.			Whole No. of pu'ilson time-book since Jan. 1, 1882.			Average No. of pupils belonging to school.			Average daily Attendance.			No. entered, not rec'd from any other public school.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling for mills.	Over fourteen years of age.	Between 10 and 14 years of age.	Between six and ten years of age.	Under six years of age.	Percent of attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.														
High.....	Anne and Kirk streets	189	169	358	250	240	490	191	168	359	184	162	346	12	148	0	0	0	0	352	4	0	0	96
<i>Grammar.</i>																								
Bartlett.....	Clark street.....	203	187	390	306	272	578	210	188	398	193	171	364	42	90	22	28	23	36	55	315	96	0	91
Colburn.....	Lawrence street.....	169	140	309	251	197	448	139	124	263	127	114	241	39	74	22	10	6	96	31	296	25	0	92
Edson.....	Highland street.....	309	288	597	465	430	895	306	272	578	284	247	531	51	137	44	23	32	98	92	508	102	0	92
Green.....	Merrimack street.....	170	193	363	299	296	595	182	180	362	169	162	331	59	79	28	27	24	59	71	344	71	0	91
Highland.....	Pine street.....	205	212	417	284	289	573	187	180	367	179	164	343	62	106	44	22	22	16	72	291	60	0	89
Mann.....	Lewis street.....	72	40	112	240	82	322	121	42	163	112	38	150	17	49	4	5	6	97	32	201	36	0	92
Moody.....	High and East Merrimack streets ..	128	121	249	179	197	376	128	122	250	119	110	229	36	44	15	21	11	27	28	235	54	0	91
Varnum.....	Myrtle street.....	150	167	317	225	238	463	154	157	311	141	144	285	38	85	23	24	27	34	63	250	42	0	92
	Totals.....	1397	1348	2745	2249	2001	4250	1427	1265	2692	1324	1150	2474	344	664	202	160	151	463	444	2440	486	0	

Summary of the Annual Returns of the Public Schools — Continued.

SCHOOL.	LOCATION.	No. pupils belonging Dec. 20, 1882.		Whole No. of pupils on time-book since Jan. 1, 1882.			Average No. of pupils belonging to school.			Average daily Attendance.		No. entered, not rec'd from any other public school.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling for mills.	Over fourteen years of age.	Between 10 and 14 years of age.	Between six and ten years of age.	Under six years of age.	Per cent. of attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.												
Primaries.	No. 1.....	23	19	42	45	40	85	21	19	40	14	18	14	15	8	1	0	6	52	90		
	2.....	32	20	52	55	48	103	28	22	50	5	30	4	28	6	0	0	6	64	89		
	4.....	23	20	43	41	32	73	23	18	41	5	22	7	16	3	2	1	12	30	90		
	7.....	18	27	45	37	47	84	19	24	43	8	20	7	19	12	1	0	13	42	93		
	9.....	24	24	48	41	43	84	18	20	38	4	35	5	8	9	4	0	15	31	92		
	15.....	23	21	44	51	41	92	26	17	43	8	29	12	18	6	3	0	16	33	91		
	18.....	30	23	53	50	36	86	26	20	46	7	28	4	17	4	5	0	18	35	90		
	19.....	28	20	48	43	38	81	23	20	43	6	21	7	13	4	2	0	7	46	93		
	25.....	26	21	47	48	38	86	26	22	48	5	25	4	23	7	0	0	5	52	91		
	30.....	26	21	47	47	41	88	34	21	55	6	30	4	22	10	4	0	18	36	93		
	33.....	18	18	36	33	34	67	17	18	35	14	11	10	20	3	5	0	19	30	94		
	40.....	23	25	48	38	49	87	20	26	46	4	20	9	15	4	3	0	10	44	93		
	47.....	22	24	46	36	45	81	19	20	39	12	27	6	23	4	0	8	41	0	89		
	48.....	13	24	37	37	50	87	14	23	37	3	21	7	23	6	0	15	30	0	92		
	52.....	21	22	43	37	50	87	20	20	40	5	25	13	27	11	1	0	7	42	93		
	56.....	13	27	40	30	43	73	14	22	36	16	11	5	16	2	3	0	23	38	92		
	61.....	42	13	55	63	28	91	29	11	40	3	34	5	19	4	10	0	26	0	88		
	62.....	14	21	35	47	54	101	21	21	42	3	16	8	26	15	0	0	8	67	93		
	68.....	15	16	31	34	25	59	18	15	33	7	7	4	8	8	5	0	11	36	88		
	80.....	16	17	33	37	25	62	20	15	35	0	12	17	15	8	0	0	3	2	86		
Totals.....		450	423	873	842	798	1640	436	394	830	137	442	152	371	134	55	1	236	777	1		

Upper Grade.

Lower Grade.	Primaries. No. 3.	Kirk street.....	35	24	59	77	69	146	28	24	52	26	20	46	37	0	27	19	20	1	0	9	72	37	88		
		School street.....	23	18	41	52	47	99	23	21	44	19	18	37	38	0	10	27	8	0	0	2	53	34	84		
		Chapel street.....	29	20	49	62	40	102	30	18	48	28	16	44	29	0	20	22	16	0	0	2	47	34	92		
		Chapel street.....	27	28	55	48	56	104	26	25	51	23	23	46	46	0	10	19	16	2	0	10	42	41	90		
		Church street.....	28	18	46	73	58	131	31	21	52	28	18	46	49	0	26	36	18	5	0	4	54	42	88		
		Elloft street.....	34	20	54	69	51	120	30	23	53	28	21	49	27	0	16	31	9	0	0	18	60	24	92		
		Central street.....	23	29	52	55	46	101	32	21	53	28	18	46	34	0	6	29	2	1	0	4	55	40	87		
		Charles street.....	34	23	57	57	47	104	31	29	60	28	27	55	34	0	10	21	15	0	0	3	53	33	91		
		High and Pond streets.....	25	24	49	55	46	101	25	22	47	23	20	43	45	0	3	25	7	0	0	8	64	29	92		
		Elliott street.....	23	29	52	49	62	111	23	30	53	21	28	49	39	0	10	29	16	1	0	0	5	36	92		
		Ames street.....	30	26	56	47	52	99	23	21	44	22	20	42	51	0	14	11	13	0	0	2	56	26	95		
		Rock street.....	29	26	53	74	73	147	29	24	53	27	21	48	40	0	23	22	15	0	0	0	58	32	90		
		Myrtle street.....	21	29	50	47	55	102	23	27	50	20	22	42	31	0	22	27	14	0	0	1	56	23	84		
Upper Grade.	Primaries. No. 8.	West Sixth street.....	21	24	45	42	43	85	21	25	46	20	23	43	36	0	5	21	14	3	0	5	52	23	92		
		High street.....	16	24	40	41	55	96	19	24	43	18	22	40	34	0	9	23	14	0	0	3	54	30	93		
		Ames street.....	37	21	58	51	34	85	29	16	45	27	15	42	28	0	13	12	9	0	0	2	29	39	96		
		West Sixth street.....	18	31	49	74	44	118	33	16	49	30	15	45	58	0	12	37	5	2	0	8	72	26	92		
		Dover street.....	23	26	49	55	55	110	27	26	53	25	24	49	31	0	13	16	36	0	0	0	55	42	92		
		Agawam street.....	29	30	59	34	37	71	25	23	48	21	21	42	33	0	3	7	10	1	0	1	41	29	90		
		Powell street.....	20	21	41	69	46	115	22	19	41	20	16	36	27	0	17	12	18	0	0	10	60	30	88		
		Totals.....	525	491	1016	1131	1016	2147	530	455	985	482	408	890	747	0	269	446	275	16	0	96	1083	700	88		
		Middle Grade.	Primaries. No. 29.	Worthen street.....	15	16	31	37	34	71	19	19	38	17	17	34	4	20	2	16	5	4	1	17	33	0	89
				Worthen street.....	16	17	33	42	28	70	25	13	38	23	11	34	5	18	5	15	4	7	1	22	27	0	89
				Branch street.....	36	23	59	75	46	121	40	25	65	36	22	58	10	34	10	40	14	15	0	29	49	0	89
				Carter street.....	22	31	53	43	51	94	21	24	45	19	22	41	6	34	12	20	5	8	1	18	29	0	91
				Howard street.....	36	30	66	62	46	108	30	22	52	27	19	46	8	35	16	28	5	0	0	21	36	0	88
Cabot street.....	30			33	63	59	81	145	25	37	62	22	30	52	8	45	0	67	7	15	0	43	49	0	84		
Common street.....	17			19	36	65	41	106	31	19	50	30	18	48	14	30	12	54	5	2	0	30	43	0	96		
Lewis street.....	20			19	39	74	51	125	32	17	49	29	13	42	11	35	4	51	6	15	1	27	52	0	85		
Lyon street.....	26			30	56	49	49	98	29	25	54	27	23	50	6	30	6	23	12	9	0	28	34	0	92		
Totals.....	218			218	436	506	432	938	252	201	453	230	175	405	72	281	67	314	63	75	4	235	352	0	0		
Lower Grade.	Primaries. No. 29.			Worthen street.....	21	20	41	45	44	89	21	20	41	19	18	37	22	14	12	22	4	0	0	12	37	14	90
				Worthen street.....	19	20	39	53	42	95	24	16	40	21	13	34	17	24	13	18	19	1	0	7	46	7	85
				Branch street.....	29	38	67	66	72	138	30	32	62	27	28	55	11	41	26	31	15	2	0	15	53	0	90
		Carter street.....	33	21	54	47	52	99	24	24	48	23	22	45	3	39	10	36	6	1	0	5	44	0	93		
		Howard street.....	25	23	48	54	46	100	29	28	57	25	25	50	20	25	14	40	14	1	0	5	50	16	88		
		Cabot street.....	30	25	55	71	60	131	26	23	49	23	19	42	5	56	5	34	18	9	0	19	51	0	86		
		Ford street.....	35	21	56	62	52	114	28	25	53	27	24	51	23	15	7	15	11	12	0	25	57	10	96		
		Common street.....	21	18	39	68	39	107	32	15	47	30	15	45	5	37	9	43	5	5	0	9	50	0	96		
		Lewis street.....	17	15	32	71	38	109	33	13	46	30	11	41	4	38	4	33	3	0	0	11	50	2	89		
		Lyon street.....	26	34	60	41	59	100	24	32	56	23	29	52	6	34	1	28	5	0	0	6	59	0	92		
		Totals.....	256	235	491	578	504	1082	271	228	499	248	204	452	116	323	101	300	100	31	0	104	497	49	88		

AUDITOR'S

Forty-Seventh Annual Report

OF THE

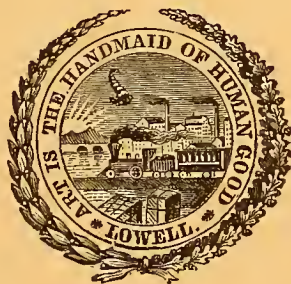
RECEIPTS AND EXPENDITURES

OF THE

CITY OF LOWELL, MASS.,

TOGETHER WITH

THE TREASURER'S ACCOUNT AND THE ACCOUNT OF THE COM-
MISSIONERS OF SINKING FUNDS FOR THE FINANCIAL
YEAR ENDING DECEMBER 31, 1882.



LOWELL, MASS. :

CITIZEN NEWSPAPER COMPANY, 44 AND 48 CENTRAL STREET.

1883.

CITY OF LOWELL.

IN COMMON COUNCIL, January 9, 1883.

Read and sent to the Board of Aldermen.

DAVID CHASE, CLERK.

IN BOARD OF ALDERMEN, January 9, 1883.

Received and read.

DAVID W. O'BRIEN, CITY CLERK.

AUDITOR'S REPORT
OF THE
RECEIPTS AND EXPENDITURES,
FOR THE YEAR ENDING DECEMBER 31, 1882

AUDITOR'S REPORT.

CITY OF LOWELL, }
AUDITOR'S OFFICE, January 9, 1883. }

TO THE CITY COUNCIL:

Gentlemen -- In conformity with the requirements of the Ordinances of the City, I have the honor to present the Forty-seventh Annual Report of the Receipts and Expenditures of the City of Lowell for the financial year ending December 31, 1882, exhibiting the same as classified in the several Department Accounts, with a schedule of the Real and Personal Property belonging to the City, and a statement of the City Debt and Debts due to the City.

RECEIPTS.

The whole amount of money received into the Treasury from all sources from January 1, to December 31, 1882, was.....\$1,806,780 90

Of this amount there was received on account of:

Taxes of 1879.....	\$	25 90
Taxes of 1880.....		1,809 33
Taxes of 1881.....		23,999 31
Taxes of 1882.....		721,934 68
Schools		1,199 36

Amount carried forward..... \$ 748,968 58

<i>Amount brought forward</i>	\$	748,968	58
School Houses		442	72
Roads and Bridges		71,902	21
Reserved Fund.....		40,106	80
Paupers.....		12,169	84
Police.....		8,328	09
Fire Department.....		1,661	76
Sewers and Drains.....		44,148	61
Intercepting Sewer.....		57,515	00
Commons		496	25
Printing and Advertising		52	80
Lighting		214	59
Public Buildings.....		3,597	47
City Hall Building Lot		1,862	10
City Library		3,127	97
Health		4	00
Water Works		140,397	96
Aiken Street.....		197,925	00
Central Bridge.....		122,272	50
Buildings at City Farm.....		61,575	00
State Aid		10,728	50
Aid for Indigent Soldiers and Sailors....		5,267	00
Interest		3,862	06
City Debt		55,000	00
Temporary Loan.....		162,000	00
Fund for the reduction of the Ordinary City Debt.....		53,154	09
			<hr/>
			\$1,806,780 90

EXPENDITURES.

The amount expended and ordered to be paid from the
Treasury, from January 1, to December 31, 1882,
was \$1,595,153 11

These expenditures are charged to the
following appropriations or accounts,
viz. :

Schools	\$	153,907	51
School Houses		45,409	57
Roads and Bridges.....		142,606	55
Reserved Fund.....		26,020	18
Paupers		52,354	56
Police.....		64,425	09
Fire Department		59,429	47
Sewers and Drains.....		107,253	48
Intercepting Sewer		45,417	64
			<hr/>
<i>Amount carried forward</i>	\$	696,824	05

AUDITOR'S REPORT.

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<i>Amount brought forward</i>	\$ 696,824 05	
Commons	4,348 28	
Printing and Advertising	3,037 16	
Lighting	22,959 05	
Public Buildings.....	11,657 13	
City Hall Building Lot	386 46	
City Library	7,549 22	
Salaries	16,245 65	
Health	8,255 49	
Water Works.....	173,645 92	
Aiken Street.....	126,072 01	
Central Bridge	19,891 83	
Buildings at City Farm.....	29,055 11	
State Aid	10,787 25	
Aid for Indigent Soldiers and Sailors....	9,285 50	
Interest	39,265 57	
City Debt	65,000 00	
National Bank Tax.....	19,829 26	
State Tax	42,200 00	
County Tax	15,904 08	
Temporary Loan	162,000 00	
Water Loan Sinking Fund	25,000 00	
Sinking Fund for Loan of 1876.....	4,000 00	
Sinking Fund for Loan of 1880.....	4,000 00	
City Hall Building Lot Sinking Fund....	7,000 00	
Aiken Street Sinking Fund	16,000 00	
Sinking Fund for High Service Water Supply	1 800 00	
Fund for the payment of the Ordinary City Debt.....	53,154 09	
	<u>\$1,595,153 11</u>	
The whole amount of receipts during the year 1882 was.....	\$1,806,780 90	
The whole amount of expenditures during the year 1882 was.....	1,595,153 11	
Excess of receipts over expenditures....	<u>\$ 211,627 79</u>	
The balance in the Treasury January 1, 1882, was.....	\$ 21, 309 78	
The amount received into the Treasury during the year 1882, was.....	1,806,780 90	
Making a total of	\$1,828,090 68	
The amount paid from the Treasury, dur- ing the year 1882, was.....	1,595,153 11	
The balance in the Treasury, December 31. 1882, was.....	<u>\$ 232,937 57</u>	

CITY DEBT.

The amount of the City Debt January 1, 1882, was.....		\$2,389,300 00
The City Debt has been increased during the year 1882 as follows :		
By the amount of a note given to the Lowell Institution for Savings, dated May 1, 1882, payable in ten years, with interest at the rate of four per cent. per annum, payable semi-annually	195,000 00	
By the amount of a note given to the Lowell Institution for Savings, dated June 9, 1882, payable in ten years, with interest at the rate of four per cent. per annum, payable semi-annually	60,000 00	
By the amount of a note given to the Lowell Institution for Savings, dated September 1, 1882, payable in ten years, with interest at the rate of four per cent. per annum, payable semi-annually.....	30,000 00	
By the amount of fifty Intercepting Sewer Loan Bonds of \$1,000 each, dated October 2, 1882, payable in twenty years, with interest at the rate of four per cent. per annum, payable semi-annually, sold to Perkins, Dupree & Co.....	50,000 00	
By the amount of six Intercepting Sewer Loan Bonds of \$1,000 each, dated October 2, 1882, payable in twenty years, with interest at the rate of four per cent. per annum, payable semi-annually, sold to Wm. Taylor.	6,000 00	
By the amount of one hundred and twenty Central Bridge Bonds of \$1,000 each, dated November 1, 1882, payable in ten years, with interest at the rate of four per cent. per annum, payable semi-annually, sold to Brewster, Bassett & Co	120,000 00	
By the amount of four notes of \$10,000 each, given to the Appleton National Bank, dated November 1, 1882, payable in one year from date.....	40,000 00	
	<hr/>	501,000 00
<i>Amount carried forward</i>		<hr/> \$2,890,300 00

Amount brought forward.....\$2,890,300 00

There has been paid on account of the
City Debt during the year 1882, three
notes, as follows :

To the Salem Savings Bank, a note which
matured August 5, 1882.....\$ 25,000 00

To the Lowell Institution for Savings, a
note which matured September 1,
1882..... 30,000 00

To the Lowell Five Cent Savings Bank,
a note which matured September 13,
1882..... 10,000 00

65,000 00

Total amount of the City Debt January 1,
1883 \$2,825,300 00

Increase in the City Debt during the year
1882..... \$ 436,000 00

The amount of the City Debt on account
of Water Works, December 31, 1882,
was\$1,875,000 00

Deduct the amount of the Sinking Funds
for the reduction of the same, De-
cember 31, 1882 356,459 52

Net debt of the city on account of Water
Works Dec. 31, 1882.....\$1,518,540 48

The amount of the ordinary City Debt,
January 1, 1882, was\$ 514,300 00

This has been increased during the year
1882, by the amount of the notes and
bonds, as stated above..... 501,000 00

\$1,015,300 00

This amount has been decreased during
the year 1882, by the payment of
three notes, as stated above..... 65,000 00

Total Ordinary City Debt Dec. 31, 1882..\$ 950,300 00

Deduct the amount of the several Sinking
Funds for the payment of the same. 116,566 91

Net Ordinary Debt of the City December
31, 1882 833,733 09

Total Net Debt of the City December 31,
1882 \$2,352,273 57

Net Debt of the City January 1, 1883...	\$2,352,273 57
Net Debt of the City January 1, 1882...	1,992,868 65
	<hr/>
Increase of the Net Debt of the City during the year 1882.....	\$ 359,404 92
	<hr/> <hr/>

Respectfully submitted,

DAVID CHASE,

Auditor of Accounts.

APPROPRIATIONS AND EXPENDITURES.

THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE BY THE CITY COUNCIL DURING THE YEAR—THE AMOUNT OF THE UNEXPENDED BALANCE OF 1881—THE TRANSFERS FROM ONE APPROPRIATION TO ANOTHER—THE AMOUNT RECEIVED INTO THE TREASURY FROM ALL SOURCES—THE EXPENDITURES IN DETAIL UNDER EACH APPROPRIATION, AND THE UNDRAWN BALANCES, DECEMBER, 31, 1882—ALSO, THE AMOUNT OF THE CITY DEBT—DEBTS DUE THE CITY—SCHEDULES OF REAL AND PERSONAL PROPERTY, ETC.

SCHOOLS.

Appropriated and assessed in 1882..... 3135,000 00

RECEIPTS.

Received into the Treasury on account
of SCHOOLS :

From Ernest M. Bassett, for tuition.....	\$45 00	
Arthur L. Clark, for tuition.....	40 00	
Albert F. French, for tuition.....	20 00	
Arthur L. Foster, for tuition.....	60 00	
	<hr/>	<hr/>
<i>Amounts carried forward.....</i>	\$165 00	\$135,000 00

<i>Amounts brought forward</i>	\$165 00	\$135,000 00
George A. Richardson, for tuition.	10 00	
Harry B. Taylor, for tuition.....	20 00	
Town of Dracut, for tuition of W. W. and J. A. Thompson	8 00	
Alice Bray, for tuition.....	10 00	
Lizzie Carter, for tuition.....	60 00	
Bessie H. Dickey, for tuition.....	40 00	
Lizzie Dickey, for tuition.....	20 00	
Mary French, for tuition	12 30	
Harriet M. French, for tuition....	40 00	
Mary L. Higgins, for tuition.....	25 00	
Anna K. Phillips, for tuition.....	20 00	
Carrie E. Russell, for tuition.....	40 00	
Helen M. Deeds, for overdraft....	3 75	
Katie F. Fay, for overdraft.....	10 00	
Frederick Taylor, for overdraft...	60	
Ginn & Heath, for books.....	93 75	
Charles Morrill, for books.....	1 25	
J. Morrill & Son, for books and overdraft.....	63 06	
George A. Smith & Co., for books	13 00	
Thompson, Brown & Co., for books	18 00	
Town of Dracut, for charts.....	1 00	
A. W. Burnham, for coal.....	61 40	
H. J. Foster, for coal.....	5 87	
Henry S. Foster, for coal.....	14 17	
L. G. Howe, for coal.....	22 12	
E. S. Hosmer, for coal.....	31 88	
John H. McAlvin, for coal.....	47 72	
Reserved Fund, for sundries.....	29 45	
Appropriation for Paupers, for sun- dries.....	70	
Appropriation for Police, for sun- dries.....	23 21	
Appropriation for Fire Department, for sundries.....	186 99	
Appropriation for Sewers, for sun- dries	44 55	
Appropriation for Intercepting Sewer, for sundries.....	55 79	
Appropriation for Water Works, for sundries.....	80	
	<hr/>	1,199 36
<i>Amount carried forward</i>		\$136,199 36

SCHOOLS.

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<i>Amount brought forward</i>	\$136,199 36	
Transferred from Reserved Fund.....	12,000 00	
Transferred from Appropriation for Public Buildings....	5,708 15	
	<hr/>	
	\$153,907 51	
	<hr/>	

EXPENDITURES.

Paid SUPERINTENDENT OF PUBLIC SCHOOLS :

To Charles Morrill, salary.....	\$2,300 00	
	<hr/>	
		\$2,300 00

Paid for INSTRUCTION :

HIGH SCHOOL.

To Charles C. Chase, Principal.....	\$2,000 00	
Frank F. Coburn.....	1,800 00	
Mary A. Webster.....	800 00	
Marietta Melvin.....	700 00	
Elizabeth McDaniels.....	700 00	
Harriet C. Hovey.....	700 00	
Charlotte E. Draper.....	700 00	
Alice J. Chase.....	700 00	
M. Jennie Keese.....	689 50	
Rose A. Jordan.....	700 00	
Clara H. Elliott.....	10 50	
	<hr/>	
		9,500 00

BARTLETT SCHOOL.

To Samuel Bement, Principal.....	\$1,580 00	
Marianne B. Kent.....	600 00	
Abbie E. French.....	600 00	
Lucy C. Dinsmore.....	458 75	
Belle A. Prescott.....	600 00	
M. Ida Howe.....	600 00	
Edith A. Gove.....	360 00	
Sophia P. Wetherbee.....	230 50	
Amy L. Tucke.....	540 00	
Lola Cheney.....	155 38	
Frances M. Talbot.....	96 88	
Mary A. Morse.....	7 50	
	<hr/>	
		5,829 01

COLBURN SCHOOL.

To George W. Howe, Principal.....	\$1,580 00	
	<hr/>	
<i>Amounts carried forward</i>	\$1,580 00	\$17,629 01

Amounts brought forward..... \$1,580 00 \$17,629 01

Paid for INSTRUCTION :

Elizabeth W. Frost.....	600 00	
Sarah J. Crosby.....	600 00	
Susan M. Andrews.....	600 00	
Mary A. Hammill.....	600 00	
Kate G. McLaughlin.....	600 00	
Arvilla L. Reader	600 00	
	<hr/>	5,180 00

EDSON SCHOOL.

To Calvin W. Burbank, Principal.....	\$1,580 00	
Mary E. Stone.....	600 00	
Maria C. R. Swan.....	597 50	
Anna A. Sargent.....	528 74	
Mary F. Carleton.....	600 00	
Fannie A. Scripture	600 00	
Mary A. Balch.....	590 00	
Lizzie N. Smith.....	598 00	
Nettie E. Carleton.....	600 00	
Rosalie T. Burns.....	600 00	
Kate F. Hayes.....	596 26	
Nellie Keefe.....	600 00	
Carrie A. Miles.....	83 88	
Belle Perkins.....	10 00	
Helen Gookin.....	5 00	
Grace S. Hadley.....	25 50	
Mary L. Butman.....	3 75	
	<hr/>	8,218 63

GREEN SCHOOL.

To Albert L. Bacheller, Principal.....	\$1,580 00	
Ruth B. Bailey.....	600 00	
Annie E. Richardson	600 00	
Lizzie A. Nolan.....	600 00	
Clara A. Hanaford.....	600 00	
Ida Sheldon	276 50	
Lena A. Gookin.....	540 00	
Emma L. Davenport.....	600 00	
Mary A. Keese.....	360 00	
Lulu A. Huntoon.....	141 13	
Ella J. Carleton.....	81 25	
	<hr/>	5,978 88
<i>Amount carried forward</i>		<hr/> \$37,006 52

SCHOOLS.

15

Amount brought forward \$37,006 52

Paid for INSTRUCTION :

HIGHLAND SCHOOL.

To Charles W. Morey, Principal.....	\$1,580 00	
Etta M. Ramsdell.....	600 00	
Alice M. Clark.....	600 00	
Abbie F. Woodward.....	600 00	
Luella A. Wardwell.....	600 00	
Fannie M. Clark.....	600 00	
Mary F. Burnham.....	600 00	
Viola A. Hamblett.....	600 00	
Addie F. Bennett.....	227 13	
Helen J. Gookin.....	3 12	
	<hr/>	\$6,010 25

MANN SCHOOL.

To George H. Conley, Principal.....	\$1,580 00	
Frances M. Webster.....	600 00	
Laura F. Howe.....	600 00	
Celestia P. Chase.....	600 00	
Julia M. Healey.....	600 00	
Nellie F. Murphy.....	600 00	
	<hr/>	4,580 00

MOODY SCHOOL.

To Joseph Peabody, Principal.....	\$1,580 00	
Mary E. Way.....	600 00	
Alice M. Sanborn.....	470 00	
Cora V. Barnard.....	411 50	
Mary E. Hardman.....	395 00	
Laura J. Pindar.....	600 00	
Sarah E. Bailey.....	40 25	
Frances E. Hardman.....	535 12	
Frances E. Garity.....	600 00	
Clara A. Eaton.....	313 14	
Charlotte E. Racao.....	130 88	
Carrie F. Smith.....	42 00	
Mary McArthur.....	4 00	
	<hr/>	5,721 89

VARNUM SCHOOL.

To Arthur K. Whitcomb, Principal.....	\$1,580 00	
Georgianna F. Vinton.....	600 00	
Harriet Bradley.....	600 00	
	<hr/>	
<i>Amounts carried forward</i>	\$2,780 00	\$53,318 66

<i>Amounts brought forward.....</i>	\$2,780 00	\$53,318 66
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Paid for INSTRUCTION :

Minnie F. Wing.....	600 00	
Sarah A. Bradley	600 00	
Alice R. Keese	382 87	
Maria W. Roberts.....	600 00	
Ada Martin	81 75	
Helen M. Deeds.....	23 50	
Mary A. Swan.....	22 50	
	<hr/>	5,090 62

TEACHER OF PENMANSHIP AND DRAWING.

To Bertram Harrison.....	\$1,200 00	
	<hr/>	1,200 00

TEACHER OF VOCAL MUSIC.

To George F. Willey.....	\$1,200 00	
	<hr/>	1,200 00

MIXED SCHOOLS.

No. 1—To Elizabeth H. Cotting.....	\$600 00	
	<hr/>	600 00
No. 2—To Laura J. Gould.....	\$600 00	
	<hr/>	600 00

PRIMARY SCHOOLS.

No. 1—To Mercena F. Whitehorn.....	\$600 00	
	<hr/>	600 00
No. 2—To Annie S. Harlow.....	\$600 00	
	<hr/>	600 00
No. 3—To Laura H. Palmer	\$236 89	
Hattie B. Frye.....	13 75	
	<hr/>	250 64
No. 4—To Lucy F. Carleton.....	\$600 00	
	<hr/>	600 00
No. 5—To Ellen A. Stillings.....	\$600 00	
	<hr/>	600 00
No. 6—To Ella M. Plumado.....	\$600 00	
	<hr/>	600 00
No. 7—To Katie E. McOwen.....	\$332 51	
D. Lilla Naylor.....	12 50	
	<hr/>	345 01
<i>Amount carried forward.....</i>		<hr/> \$65,604 93

Amount brought forward \$65,604 93

Paid for INSTRUCTION :

PRIMARY SCHOOLS.

No. 8—To Martha A. Franklin.....	\$498 40	
Maggie Harrison.....	22 00	
Mary J. Murphy.....	40 62	
	<hr/>	561 02
No. 9—To Nellie MacDonald.....	\$600 00	
	<hr/>	600 00
No. 10—To Martha A. Neal.....	\$464 75	
Susie L. D. Watson.....	62 50	
	<hr/>	527 25
No. 11—To Isabella V. McAnulty.....	\$600 00	
	<hr/>	600 00
No. 12—To Minnie C. Smith	\$600 00	
	<hr/>	600 00
No. 13—To Cornelia M. Davis.....	\$600 00	
	<hr/>	600 00
No. 14—To Marietta Hill.....	\$600 00	
	<hr/>	600 00
No. 15—To Marietta McEvoy.....	\$470 00	
	<hr/>	470 00
No. 16—To Nellie Kohawn.....	\$600 00	
	<hr/>	600 00
No. 17—To Sarah C. Fiske.....	\$600 00	
Hattie B. Frye.....	78 13	
Emma G. French.....	71 87	
	<hr/>	750 00
No. 18—To Eliza Cowley.....	\$600 00	
	<hr/>	600 00
No. 19—To Alice T. Owens.....	\$600 00	
	<hr/>	600 00
No. 20—To Mary L. McSorley	\$600 00	
	<hr/>	600 00
No. 21—To Hattie A. Knowles.....	\$232 64	
	<hr/>	232 64
No. 22—To Ella E. Gardner.....	\$600 00	
	<hr/>	600 00
No. 23—To Ellen A. Corbett.....	\$600 00	
	<hr/>	600 00
No. 24—To Ellen A. Bridge.....	\$600 00	
	<hr/>	600 00
No. 25—To Aurelia L. Howe.....	\$600 00	
	<hr/>	600 00
<i>Amount carried forward</i>		<hr/> \$75,948 84

Amount brought forward \$75,945 84

Paid for INSTRUCTION :

PRIMARY SCHOOLS.

No. 26—To Charlotte E. Brown.....	\$600 00	
Mary J. Murphy	53 13	
		653 13
No. 27—To Mary E. Drew.....	\$600 00	
		600 00
No. 28—To Mary E. Corbett.....	\$600 00	
		600 00
No. 29—To Jennie F. Woodward.....	\$360 00	
Marietta F. Crowley.....	180 00	
Mary J. Harrigan.....	20 00	
		560 00
No. 30—To Nellie T. O'Grady.....	\$470 00	
		470 00
No. 31—To Laura E. Lee.....	\$600 00	
Flora H. Sprague	117 50	
		717 50
No. 32—To Ellen F. Coughlin	\$600 00	
		600 00
No. 33—To Amanda M. Hadley.....	\$600 00	
		600 00
No. 34—To Lizzie S. Lowe.....	\$515 00	
Emma G. French.....	36 88	
Isabella A. Perkins.....	39 37	
		591 25
No. 35—To Clara A. Emerson.....	\$600 00	
		600 00
No. 36—To Mary A. Beard.....	\$600 00	
		600 00
No. 38—To Lottie M. Furnald.....	\$540 00	
		540 00
No. 39—To Abby L. Sargent.....	\$600 00	
		600 00
No. 40—To Sarah E. Scales.....	\$600 00	
		600 00
No. 41—To Lilla J. Greenhalge.....	\$600 00	
		600 00
No. 42—To Lizzie M. Hadley.....	\$600 00	
		600 00
No. 43—To Nellie M. Brown.....	\$600 00	
		600 00
No. 44—To Mary L. Hill	\$600 00	
		600 00
No. 45—To Ellen M. White.....	\$600 00	
		600 00
<i>Amount carried forward</i>		\$87,277 72

SCHOOLS.

19

Amount brought forward..... \$87,277 72

Paid for INSTRUCTION :

PRIMARY SCHOOLS.

No. 46—To Ella A. Bailey	\$600 00	
	<hr/>	600 00
No. 47—To Mary F. Beane	\$600 00	
	<hr/>	600 00
No. 48—To Eliza A. Davis	\$470 00	
	<hr/>	470 00
No. 49—To Sara R. Swan	\$600 00	
	<hr/>	600 00
No. 50—To Marion J. Stevenson	\$522 25	
Mary E. Butman	50 00	
	<hr/>	572 25
No. 51—To Mary J. Alger	\$600 00	
	<hr/>	600 00
No. 52—To Lucretia A. Day	\$584 00	
Mary H. McArthur	16 00	
	<hr/>	600 00
No. 53—To Charlotte McDaniels	\$572 50	
Mary A. Lynch	27 50	
	<hr/>	600 00
No. 54—To Agnes I. Meldrum	\$600 00	
	<hr/>	600 00
No. 55—To Stella J. Allen	\$600 00	
	<hr/>	600 00
No. 56—To Elizabeth A. Balch	\$467 37	
Susie L. D. Watson	63 76	
Annie M. Lee	7 50	
	<hr/>	538 63
No. 57—To Belle T. Vinal	\$600 00	
	<hr/>	600 00
No. 58—To Ellen M. Holden	\$557 00	
Minnie B. Chase	111 00	
Mary A. Morse	22 00	
	<hr/>	690 00
No. 59—To Alice T. Lee	\$493 00	
Annie M. Lee	51 00	
	<hr/>	544 00
No. 60—To Jennie C. Boardman	\$600 00	
	<hr/>	600 00
No. 61—To Ella E. Bradley	\$275 63	
Helen M. Brown	137 00	
Laura H. Palmer	11 25	
Charlotte E. Racao	5 00	
	<hr/>	428 88
<i>Amount carried forward</i>		<hr/>
		\$96,521 48

<i>Amount brought forward</i>		\$96,521 48
Paid for INSTRUCTION :		
PRIMARY SCHOOLS.		
No. 62—To Clara B. Horne.....	\$600 00	
	<hr/>	600 00
No. 63—To Emma J. Miller.....	\$600 00	
	<hr/>	600 00
No. 64—To Delia T. Brady	\$600 00	
Nellie A. Hunt.....	98 37	
	<hr/>	698 37
No. 65—To M. Carrie Stiles.....	\$600 00	
	<hr/>	600 00
No. 66—To Katie F. Fay.....	\$550 00	
	<hr/>	550 00
No. 67—To Clementine H. Bowers.....	\$600 00	
	<hr/>	600 00
No. 68—To Mary McLaughlin.....	\$600 00	
	<hr/>	600 00
No. 69—To Marietta F. Crowley.....	\$420 00	
Mary J. Harrihan.....	66 38	
	<hr/>	486 38
No. 70—To Abbie V Wheeler.....	\$600 00	
	<hr/>	600 00
No. 71—To Mary J. McCarry	\$470 00	
Bridget T. Maguire.....	40 50	
	<hr/>	510 50
No. 72—Helen S. Durgin.....	\$300 00	
Bridget T. Maguire.....	91 88	
	<hr/>	391 88
No. 73—To Mary J Meade.....	\$540 00	
	<hr/>	540 00
No. 74—To Anna Kohawn	\$596 87	
Frances M. Talbot.....	3 13	
	<hr/>	600 00
No. 75—To Minnie I. A. Tibbetts.....	\$540 00	
	<hr/>	540 00
No. 76—To Katie G. Jones.....	\$540 00	
	<hr/>	540 00
No. 77—To Ida J. Flint.....	\$540 00	
	<hr/>	540 00
No. 78—To Eva M. Hardy.....	\$470 00	
	<hr/>	470 00
No. 79—To Hattie B. Frye.....	\$240 63	
	<hr/>	240 63
No. 80—To Flora H. Sprague.....	\$207 50	
	<hr/>	207 50
No. 81—To Minnie B. Chase.....	\$44 38	
	<hr/>	44 38
<i>Amount carried forward</i>		\$106,481 12

Amount brought forward..... \$106,481 12

Paid for SERVICES OF TRUANT OFFICERS :

To Bickford Lang.....	\$750 00	
William H. Bermingham	750 00	
	<hr/>	1,500 00

Paid for SERVICES OF JANITORS :

To Mary Barrington.....	\$106 56	
Ellen Cogger.....	23 10	
Ann Conners.....	161 15	
Eliza Freeman.....	158 40	
Marietta Hill	48 83	
Aurelia L. Howe.....	48 83	
Arthur Butman.....	66 23	
A. B. Carle.....	68 40	
Anfort Coburn.....	54 72	
Dennis Cummings.....	558 25	
Joseph F. Couvery.....	88 00	
John Donahoe	8 00	
Joseph S. Farmer	227 30	
Julius C. Jockow.....	440 00	
A. K. Kittredge.....	710 60	
L. P. Little.....	12 50	
A. W. Livermore.....	708 40	
F. A. Livermore	544 50	
Job Moody.....	44 00	
Andrew Maguire.....	726 00	
Michael McDermott.....	740 11	
Charles Price.....	54 72	
George A. Philbrick.....	653 23	
John Quinn.....	782 10	
Patrick Quinn.....	636 90	
W. N. Roberts.....	726 00	
Daniel Reynolds	725 13	
Aaron Scadding.....	629 18	
Wyatt M. Stevens.....	782 10	
C. C. Spalding.....	382 35	
	<hr/>	10,915 59

Paid for BOOKS :

To D. Appleton & Co.....	\$9 98
John Allen	40 13
Boston School Supply Co.....	665 17
Clark & Maynard	292 82

<i>Amounts carried forward</i>	\$1,008 10	\$118,896 71
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Amounts brought forward..... \$1,008,10 \$118,896 71

Paid for BOOKS :

To Cowperthwait & Co.....	244 50	
Robert S. Davis & Co.....	56 88	
J. W. C. Gilman & Co.....	188 85	
Ginn, Heath & Co.....	763 55	
Joel Goldthwait & Co.....	32 50	
Hall & Whiting	11 40	
Houghton, Mifflin & Co.....	12 20	
Horace H. Knapp.....	23 00	
J. Merrill & Son.....	225 83	
John McKeown.....	4 00	
Lee & Shepard.....	8 34	
Potter, Ainsworth & Co.	180 84	
Carl Schoenhof & Co.....	129 91	
George A. Smith & Co.....	923 38	
M. W. Tewksbury.....	19 44	
Thompson, Brown & Co.....	545 99	
William Ware & Co.....	818 46	
A. Whitney	209 90	
W. H. Worcester & Co.....	8 00	
	<hr/>	5,415 07

Paid for BLANK BOOKS, STATION-
ERY, PRINTING, ADVERTIS-
ING, ETC. :

To Bacheller, Dumas & Co., for blank books, binding, etc.....	\$94 35	
J. H. Bufford's Sons, for diplomas..	57 80	
H. C. Church & Son, for stationery, ink, rubber bands, etc.....	182 10	
F. P. Coggsehall, for paper, ink, tape and seals.....	8 85	
Frost & Adams, for paper, studies, ornaments, etc.....	29 24	
George F. King and Merrill, for pa- per, pencils, pens, etc.....	218 59	
J. Merrill & Son, for blank books, slates, pens, ink, rubber, muc- ilage, etc.....	97 21	
L. Prang & Co., for pencils.....	28 00	
Potter, Ainsworth & Co., for paper.	50 00	
George A. Smith & Co., for paper, ink, pencils, rubber, etc.....	238 90	
Abel Whitney, for blank books, etc.	20 53	
	<hr/>	
<i>Amounts carried forward</i>	\$1,025 57	\$124,311 78

Amounts brought forward..... \$1,025 57 \$124,311 78

Paid for BLANK BOOKS, STATION-
ERY, PRINTING, ADVERTIS-
ING, ETC.:

To Citizen Newspaper Co., for printing and advertising	108 78	
Campbell & Hanscom, for printing, advertising and blank books	67 58	
R. Fowler, for printing.....	2 25	
Harrington Bros., for printing.....	6 00	
Huse, Goodwin & Co., for paper and printing	489 41	
C. L. Knapp & Son, for printing and advertising.....	47 11	
Morning Mail Co., for printing and advertising.....	7 75	
Marden & Rowell, for printing and advertising.....	113 40	
Publishers of L'Abeille, for printing.	5 00	
Stone, Batcheller & Livingston, for printing and advertising.....	59 00	
T. J. Harrigan, for distributing re- ports.....	18 00	
Lowell Bill Posting Co., for posting.	2 00	
	<hr/>	1,951 85

Paid for FUEL:

To Appropriation for School-Houses, for wood.....	\$9 00	
Appropriation for Roads and Bridges, for labor.....	738 69	
Appropriation for Paupers, for fuel and labor.....	1,342 66	
Appropriation for Fire Department, for coal.....	54 00	
William Kittredge, for coal.....	8,495 53	
William E. Livingston, for coal.....	291 00	
Mollahan Brothers, for coal.....	16 40	
	<hr/>	10,947 28

Paid for SUNDRIES:

To Appropriation for School-Houses, for lumber, paint, labor, etc.....	\$187 79	
Appropriation for Roads and Bridges, for labor, etc.....	255 97	
	<hr/>	
<i>Amounts carried forward</i>	\$443 76	\$137,210 91

<i>Amounts brought forward</i>	\$443 76	\$137,210 91
Paid for SUNDRIES :		
To Appropriation for Paupers, for lumber.....	9 10	
Appropriation for Public Buildings, for labor.....	1,535 62	
Appropriation for Water Works, for use of water, labor and material..	706 11	
Lowell Gas Light Co., for gas.....	97 72	
Charles E. Adams, for hardware, bells, etc.....	33 59	
H. A. Fielding, for hardware, etc...	44 81	
H. B. Shattuck, for hardware, etc...	36 95	
Frederick Taylor, for hardware, tools, etc.....	75 48	
C. Zimmer, for key blanks, keys and labor on muskets.....	14 90	
O. E. Averill, for bolt and poker...	1 75	
H. R. Barker, for pipes, fittings, grates, labor, etc.....	173 86	
Daniel Cushing & Co., for iron, solder, coal-hods, labor, etc.....	180 05	
T. Costello & Co., for pipes, fittings, marble basins, labor, etc.....	92 62	
Richard Dobbins, for castings, fire-brick, lead, labor, etc.....	34 21	
T. R. Garity & Co., for pipe, fittings, hose, chimney, labor, etc.....	242 30	
John Gilchrist, for pipe, couplings and labor.....	3 50	
S. H. Jones, for scraper and labor..	3 40	
A. Jackson, for repairing furnaces..	19 25	
S. G. Mack & Co., for hods, repairing stoves, etc.....	21 54	
M. O'Flahaven & Co., for zinc, repairing stoves, etc.....	24 86	
F. W. Proctor, for pipe, fittings, packing and labor.....	22 00	
Pevey Bros., for castings.....	26 15	
Jerry Ryan, for brush, blacking and repairing stoves	4 95	
B. Scannell & Co., for castings and labor	14 82	
Scannell & Wholey, for repairing boilers, etc.....	91 30	
George A. Smith & Co., for burners, pencil sharpeners, etc.....	44 25	
<i>Amounts carried forward</i>	\$3,998 85	\$137,210 91

Amounts brought forward..... \$3,998 85 \$137,210 91

Paid for SUNDRIES :

To H. H. Wilder & Co., for pipe, grates, brick, stoves, pails, dip- pers, coal-hods, labor, etc.....	213 13
D. H. Wilson & Co., for copper and labor	5 51
Wallingford & Callaghan, for stoves, drinking cups, etc.....	299 58
A. L. Brooks & Co., for lumber....	12 06
Badger & Holmes, for table-legs and turning	12 75
A. P. Bateman, for lumber.....	5 20
Howes & Burnham, for lumber.....	344 26
A. Keddie, for lumber and labor....	16 15
William Kelley & Son, for doors....	6 00
M. C. Pratt & Co., for lumber.....	40 56
American Soapstone Finish Co., for blackboard finish.....	77 00
Buttrick & Co., for matches, stove- polish, brooms, brushes, etc.....	13 33
C. B. Coburn & Co., for spirits tur- pentine, alcohol, packing, plaster, lanterns, sponge, brushes, brooms, feather-dusters, etc.....	384 09
H. C. Church & Son, for waste.....	8 22
Clark & Noyes, for brooms, brushes, etc.....	27 25
John A. Clark, for pails, tubs, etc..	4 50
W. A. Dickinson, for soap.....	4 50
French & Puffer, for baskets, brooms, pails, brushes, etc.....	98 02
Fiske & Spaulding, for paper.....	17 50
Josiah Gates & Sons, for packing...	50
Hartwell & Co., for soap and salt...	5 30
S. Horn & Co., for soap.....	19 50
J. L. Hammett, for ink-wells.....	11 52
A. L. Kittredge, for curtain fixtures, lettering cards, etc.....	11 73
M. Meaney, for canvas box-covers..	6 00
Jonathan Kendall & Co., for alcohol, oil, asphaltum and brooms.....	6 11
A. T. Merrill, for coaline.....	12 00
New England Mat Factory, for mats	155 20
C. K. Russell & Son, for matches...	1 10

Amounts carried forward..... \$5,817 42 \$137,210 91

Amounts brought forward..... \$5,817 42 \$137,210 91

Paid for SUNDRIES :

To C. P. Talbot & Co., for alcohol, muriatic acid, ammonia and cop- peras	40 59	
Adams & Co., for desk and stool...	28 65	
Offutt & Whitaker, for chairs and mirror-plate	11 35	
J. F. Puffer & Son, for bocking, en- amelled cloth, chairs, etc.....	73 48	
G. H. Ray, for repairing chairs.....	1 75	
Charles F. Shourds & Co., for feather- dusters.....	93 00	
John Welsh, for book-case and use of cabinet.....	8 50	
Carleton & Hovey, for epsom salts, drugs, corks, ink, thermometers, cups, bottles, etc.....	60 63	
G. C. Brock, for thermometers.....	2 25	
Conghlin & Co., for rubber bands...	25	
C. G. Gerry, for erasers.....	71 50	
Daniel M. Read & Co., for auto- matic pitch pipes.....	9 00	
William Reed & Sons, for muskets, swords, belts and cases.....	250 50	
George A. Smith & Co., for crayons, pencils, dividers and squares.....	213 64	
Winkley, Thorpe & Dresser, for pens.....	13 20	
Lincoln R. Welch, for drum and labor	14 00	
H. B. & H. M. Bacon, for mounting and engraving Carney medals....	6 00	
J. J. Cluin, for repairing clocks.....	2 00	
Cluin & Allen, for repairing clock ..	1 00	
R. S. Clifford, for clocks and repair- ing clocks.....	129 55	
G. W. Dudley, for repairing clocks.	3 00	
George Thatcher, for bell, clock and repairing clocks.....	16 25	
Austin & Carleton, for use of piano.	5 00	
Irvin A. Foote, for tuning pianos...	38 00	
W. S. Foote & Co., for piano cover.	3 00	
Owen Bros., for piano covers, drum- head, cord and labor.....	18 00	
<i>Amounts carried forward</i>	\$6,931 51	\$137,210 91

Amounts brought forward \$6,931 51 \$137,210 91

Paid for SUNDRIES :

To D. Crowley, for ribbon	10 75
Cutting and Bradt, for cotton cloth..	52
George H. Chamberlin, for ringing bell	10 00
A. K. Kittredge, for ringing bell . . .	20 00
George Libbee, for ringing bell	20 00
C. C. Chase, for cash paid orchestra, arranging music and use of plants.	46 00
Charles Morrill, for cash paid for postage stamps, express and labor cleaning muskets	12 70
Ellen D. Carney, for services and expenses at exhibition of drawings..	6 00
F. W. Stickney, for services and expenses at exhibition of drawings..	12 00
Helen W. Wright, for services and expenses at exhibition of drawings	40 24
Kirkley Hyde, for services and expenses at exhibition of drawings..	21 60
B. Harrison, for services and expenses at exhibition of drawings, and filling in High School diplomas	13 00
H. B. Lane, for making hydrogen and oxygen gas	3 50
F. F. Coburn, for expenses connected with calcium lights	2 50
H. G. Cressey, for taking and recording census of school children	101 39
Thomas J. Harrigan, for taking and recording census of school children	97 44
Joseph W. Tapley, for taking and recording census of school children	116 07
Town of Chelmsford, for tuition of children	15 40
Town of Dracut, for tuition of Edward Cuthbertson, John Dempsey, Willie Dempsey, Andrew McArthur, Willie McArthur, George Thompson, Irene Abeley, Victoria Cuthbertson, Emma Gourd, Grace Howard, Mary Krouse and Jennie Lawson	52 36
A. A. Hanscom, for military instruction	250 00

Amounts carried forward \$7,782 98 \$157,210 91

Amounts brought forward..... \$7,782 98 \$137,210 91

Paid for SUNDRIES :

To American Brass Band, for services..	60 00	
Charles H. Fuller, for rent of school-room	37 50	
First Primitive Methodist Church, for use of vestry	45 00	
Mrs. Robert Park, for rent of school-room.....	50 00	
George Sheldon, for rent of school-house.....	94 44	
Ann Gallagher, for cleaning drill hall	5 00	
Ann Connors, for labor.....	10 00	
E. W. Coburn, for labor on blackboards	98 69	
A. K. Kittridge, for labor.....	6 20	
Charles F. Butters, for carriage hire.	3 00	
Bickford Lang, for use of horse and carriage.....	100 00	
E. H. Morse, for carriage hire.....	7 50	
Harmon & Young, for carriage hire.	9 00	
George F. Pearson, for labor.....	7 00	
John Hanley, for labor with team...	1 00	
D. P. Knowlton, for labor with team	4 50	
Frank Meehan, for labor with team.	1 50	
Daniel McCarthy, for labor with team	12 50	
William Roberts, for labor with team	3 00	
George E. Stanley, for freight and teaming.....	6 78	
George Thorpe, for labor with team.	75	
Samuel Tompkins, for labor with team	3 75	
James Tryon, for labor with team...	4 25	
Lovejoy's & Company's Express, for transportation.....	7 85	
United States and Canada Express, for transportation.....	28 30	
Boston & Lowell and Concord Railroad, for transportation.....	36	
		8,390 85

EVENING SCHOOLS.

Paid for INSTRUCTION :

High — To Stephen G. Bailey.....	120 00	
M. Alice Bates.....	54 00	
<i>Amounts carried forward</i>	\$174 00	\$145,601 76

SCHOOLS.

2

Amounts brought forward..... \$174 00 \$145,601 76

Paid for INSTRUCTION :

EVENING SCHOOLS.

No. 1—To James F. Walsh.....	99 00
Mary E. Butman.....	56 25
Ada Martin.....	56 25
Hannah P. Wright.....	55 50
Emma G. French.....	56 25
Charlotte E. Racao	54 50
Ella L. Wright.....	43 50
Frances M. Talbot.....	21 00
Isabella A. Perkins.....	47 25
Mary A. Morse.....	55 50
Susie L. D. Watson	56 25
Lizzie A. Butman.....	28 50
Maggie A. Harrihan.....	56 25
Gertrude Sheldon.....	99 00
Genevra M. Dunn.....	51 50
Frances M. Dennett	56 25
Ida E. Bisbee.....	55 25
Eva M. Hardy	75
Gertrude L. Lovejoy.....	14 25
Edith F. Walker	42 75
Hattie A. Knowles.....	29 25
Mary J. Murphy	56 25
Kate E. Cassidy.....	26 00
Jennie M. Bennett.....	23 00
Anna I. Rodliff	20 00

\$1,334 25

No. 2—To Joseph W. Cross, Jr.....	60 00
Daniel J. Donahue	24 00
Carrie T. Smith.....	57 00
Anna M. Lee.....	62 50
Flora H. Sprague.....	30 00
Belle G. Dunlap.....	30 00
Hattie B. Frye.....	30 00
Bridget T. Maguire.....	57 00
Alice F. Lawrence.....	57 00
Lizzie F. Lamere.....	67 50
Mary S. Gerry.....	30 00
Clara A. Eaton	14 25
Nellie A. Hunt.....	57 00
Martha A. Paul.....	30 00
Lizzie R. Murphy	27 00
Lizzie R. Maguire.....	24 00

Amounts carried forward.

\$1,991 50 \$145,601 76

Amounts brought forward \$1,991 50 \$145,601 76

Paid for INSTRUCTION :

EVENING SCHOOLS.

No. 2—To Georgia A. Harnden.....	27 00
Mary A. Gerry	27 00
Mary A. Lynch	27 00
Mary A. Fay	24 00

\$2,096 50

No. 3—To Fred P. Marble.....	100 50
Carrie Miles	58 00
Lizzie Kennedy	58 00
Mary E. Rogers.....	58 00
Mary McArthur.....	58 00
Nettie M. Davis.....	58 00
Kate B. Symonds	30 00
Lizzie Holt.....	28 00

\$2,545 00

No. 4—To John J. Harvey	106 50
Addie F. Bennett.....	24 75
Ella E. Bradley	29 25
Laura H. Palmer.....	30 00
Addie L. Richardson	59 25
Lizzie A. Robertson	60 00
Addie Whitten.....	1 50
Helen M. Deeds.....	60 00
Henrietta Prescott.....	30 00
Hattie E. Morey	30 00
Mary J. Whittemore.....	30 00
Minnie J. Coggeshall	30 00
Minnie E. Packard	30 00

\$3,066 25

No. 5—To J. H. Guillet	100 50
Malvina Desilets	57 25
Kate Gill.....	57 25
Nellie Miller.....	57 25
Georgiana Cote	20 25
Josephine Cote.....	56 25
Helene Cote.....	20 25
Aline Mougne	29 25
Josephine Lassalle.....	29 25
Alphonsine Myers.....	17 00

Amounts carried forward..... \$3,510 75 \$145,601 76

Amounts brought forward..... \$3,510 75 \$145,601 76

Paid for SERVICES OF JANITORS:

EVENING SCHOOLS.

To J. W. Cross, Jr.....	16 00
Joseph F. Convery	40 40
Thomas J. Duffey	65 00
William J. Flynn.....	65 00
Joseph Hovey.....	67 00
Andrew Maguire	65 00
John Quinn.....	67 00
Cornelius Reagan.....	68 00
John Sexton.....	60 00
W. N. Stephens.....	67 00
James Sheridan.....	65 00

\$4,156 15

Paid for SUNDRIES:

To Appropriation for School Houses, for lumber, labor, etc	24 17
Appropriation for Paupers, for fuel.....	8 00
Appropriation for Lighting, for gas..	32 65
Appropriation for Public Buildings, for lumber and labor.....	69 99
Lowell Gas Light Co., for gas.....	183 58
M. C. Pratt & Co., for lumber	5 35
H. B. Shattuck, for hardware	2 60
F. W. Proctor, for pipe, fittings and labor	35 99
B. Sutcliffe, for repairing stoves....	2 00
E. W. Coburn, for mason work and material	32 73
Stickney & Spofford, for broom and oil.....	1 10
J. W. Cassidy, for cotton cloth.....	75
J. Merrill & Son, for pens and ink..	1 88
A. Whitney, for blanks.....	1 28
Citizen Newspaper Co., for printing.	3 25
Campbell & Hanscom, for printing..	9 75
Huse. Goodwin & Co., for advertising	12 75
Publishers of L'Abeille, for printing and advertising	8 00
Huntington Hall Bill Posting Co., for posting	3 00
W. S. Simons, for posting.....	6 00
Thomas G. Little, for labor with team	1 00
D. P. Knowlton, for labor with team	1 50

4,603 47

Amount carried forward..... \$150,205 23

Amount brought forward..... \$150,205 23

DRAWING SCHOOL.

Paid for INSTRUCTION :

To Ellen D. Carney	\$408 00
Helen W. Wright.....	1,118 78
Huldah J. Leavitt.....	132 00
Isabella Coburn.....	64 50
Mary E. Cushing.....	55 50
Ella C. Green.....	66 00
F. W. Stickney.....	532 00
Kirkley Hyde.....	487 50
Samuel G. Stephens.....	98 00
Willard M. Foster.....	98 00
F. W. Farnham.....	75 25
J. Nelson Dennis.....	49 00
	<hr/>
	\$3,184 53

Paid for SUNDRIES :

To Appropriation for Public Buildings, for lumber and labor.....	59 45
Lowell Gas Light Co., for gas.....	222 90
W. N. Roberts, for services as janitor.....	117 50
H. R. Baker, for burner.....	1 00
S. G. Mack & Co., for tin and labor	3 48
Frederick Taylor, for hardware.....	1 05
C. B. Coburn & Co., for cotton cord and shellac.....	5 35
Paul A. Garey, for models and clay.	44 00
L. Prang & Co., for studies for drawing.....	6 47
Mary E. Cushing, for studies, postal cards, etc.....	4 05
F. W. Stickney, for labor on drawings.....	4 50
Bachelor, Dumas & Co., for blank books.....	3 00
Campbell & Hanscom, for advertising	6 00
Citizen Newspaper Co., for printing and advertising	15 50
Huse, Goodwin & Co., for advertising.....	3 50
Morning Mail Co., for advertising..	6 00
Marden & Rowell, for printing.....	14 00
	<hr/>
	\$3,702 28
Whole expenditure for the year.....	<hr/> <hr/> \$153,907 51

SCHOOL-HOUSES.

Balance undrawn January 1, 1882.....	\$ 1,845 72	
Appropriated and assessed in 1882.....	40,000 00	
	<hr/>	\$41,845 72

RECEIPTS.

Received on account of SCHOOL-HOUSES :

From Appropriation for Schools, for sundries.....	\$220 96	
Appropriation for Roads and Bridges, for sundries.....	6 91	
Appropriation for Paupers, for sundries.....	5 30	
Appropriation for Police, for sundries.....	41 12	
Appropriation for Fire Department, for sundries.....	18 93	
Appropriation for City Hall Building Lot, for sundries.....	7 12	
Appropriation for Library, for sundries.....	2 15	
Appropriation for Water Works, for sundries.....	14 67	
Reserved Fund, for sundries.....	35 48	
C. B. Coburn & Co.. for barrels..	2 30	
Geo. W. Pearsons, for labor and material	24 88	
F. W. Proctor, for old lead.....	62 90	
	<hr/>	442 72
		<hr/>
		\$42,288 44
Transferred from Appropriation for Roads and Bridges.....		3,121 13
		<hr/>
		\$45,409 57
		<hr/> <hr/>

EXPENDITURES.

Paid for LAND AND SCHOOL-
HOUSE ON GRAND STREET
(unfinished) :

To Sundry persons, for labor, as per pay-rolls	\$392 84	
George Sheldon, for 3,712 feet of land and building	1,856 00	
Davis & Sargent, for lumber.....	68	
M. C. Pratt & Co., for lumber and windows	302 49	
C. E. Adams, for hardware.....	22 14	
Mass. Cotton Mills, for iron posts..	11 00	
Pevey Bros., for castings.....	7 48	
O. E. Averill, for blacksmithing....	3 45	
Robert Goulding, for slating.....	115 20	
Staples Bros., for pipe and cement..	17 10	
John Labarge, for cement, stone, labor, etc.	530 73	
Luther Richardson, for moving building.....	75 00	
	<hr/>	\$3,334 11

Paid for LAND AND SCHOOL-
HOUSE ON GORHAM STREET
(unfinished) :

To Sundry persons, for labor, as per pay-rolls	\$1,158 96	
Appropriation for Roads and Bridges, for labor.....	24 25	
Appropriation for Sewers and Drains, for labor.....	11 50	
Appropriation for Water Works, for pipe, fittings, meter and labor....	54 62	
James Slavin, for 25,592 feet of land	12,796 00	
James Slavin, for cellar and foundation.....	1,215 50	
John L. Moulton, for labor performed and material furnished, on account of contract.....	5,500 00	
A. P. Bateman, for lumber.....	485 61	
Badger & Holmes, for framing pins.	4 00	
Howes & Burnham, for lumber.....	1,565 26	
M. C. Pratt & Co., for lumber.....	553 06	
	<hr/>	
<i>Amounts carried forward</i>	\$23,368 76	\$3,334 11

Amounts brought forward..... \$23,368 76 \$3,334 11

Paid for LAND AND SCHOOL-
HOUSE ON GORHAM STREET
(unfinished) :

To Whitney & Tibbetts, for lumber....	2 74	
O. E. Averill, for blacksmithing....	14 44	
Boutwell Bros., for iron beams and bolts.....	382 30	
H. A. Fielding, for hardware	40 48	
Pevey Bros., for castings.....	203 20	
Lewis B. Gumb, for steps and curb- ing.....	68 00	
O. H. P. Trask, for stone and labor.	148 31	
Charles A. Kendall, for drain pipe..	22 68	
C. B. Coburn & Co., for oil, lead, glass, paint, rope, bronze and putty	79 12	
F. W. Stickney, for plans and speci- fications.....	500 00	
Marden & Rowell, for advertising...	3 75	
	<hr/>	24,833 78

Paid for SUNDRIES :

To Sundry persons, for labor, as per pay-roll.....	\$5,359 03	
Appropriation for Road and Bridges, for sidewalk on Beech street.....	134 62	
Appropriation for Roads and Bridges, for brick, sand, cinders and labor.	11 25	
Appropriation for Sewers and Drains, for sewer assessments and labor..	520 92	
Appropriation for Water Works, for use of water, service pipe, fittings and labor.....	42 38	
Badges & Holmes, for brackets.....	3 00	
A. L. Brooks & Co., for lumber....	118 65	
A. P. Bateman for lumber.....	2 13	
Crosby Furniture Co., for labor on desks.....	110 62	
Davis & Sargent, for lumber.....	14 07	
Howes & Burnham, for lumber.....	56 13	
William Kelley & Son, for sash.....	5 50	
A. Keddie, for labor on lumber.....	6 55	
M. C. Pratt & Co., for lumber and labor	1,270 63	
<i>Amounts carried forward</i>	<hr/> \$7,655 48	<hr/> \$28,167 89

<i>Amounts brought forward.....</i>	\$7,655 48	\$28,167 89
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Paid for SUNDRIES :

To A. T. Stearns, for lumber.....	\$ 840 06	
Whitney & Tibbetts, for lumber....	16 07	
Charles Griffin, for repairing pumps	5 00	
J. E. Griffin & Son, for repairing pumps.....	2 75	
Charles F. Adams, for hardware....	44 17	
John C. Bennett, for hardware.....	82	
Thomas Duckles, for hardware.....	80	
H. A. Fielding, for hardware.....	161 15	
H. B. Shattuck, for hardware.....	47 03	
Frederick Taylor, for hardware.....	83 78	
O. E. Averill, for blacksmithing....	22 03	
Boutwell Bros., for iron.....	1 26	
F. S. Berry, for blacksmithing.....	15 20	
H. R. Barker, for pipe, fittings and labor	31 00	
George L. Cady, for harness-eyes...	3 75	
Daniel Cushing & Co., for galvanized gutter	14 00	
T. Costello & Co., for material and labor.....	7 40	
Cahill Bros., for blacksmithing....	4 00	
Cole & Nichols, for castings.....	82 44	
E. M. Foster, for pipe, fittings and labor	32 38	
T. R. Garity & Co., for pipe, fittings, brush and labor.....	116 75	
John Gilchrist, for pipe, fittings and labor	202 44	
S. H. Jones, for sinks.....	5 00	
S. G. Mack & Co., for castings and labor	11 59	
M. O'Flahaven & Co., for tin, solder and labor.....	44 61	
Pevey Bros., for castings and labor.	287 35	
F. W. Proctor, for pipe, fittings, cement and labor.....	915 96	
Rice & Co., for wire-cloth, guards, etc.....	44 90	
Jerry Ryan, for iron, labor, etc....	20 35	
George Thatcher, for hanging bells..	44 96	
Scannell & Wholey, for inspecting boilers, castings, packings, etc...	98 32	
<i>Amounts carried forward.....</i>	<u>\$10,862 80</u>	<u>\$28,167 89</u>

Amounts brought forward..... \$10,862 80 \$28,167 89

Paid for SUNDRIES :

To Ware & Smith, for composition and labor	15 60	
H. H. Wilder & Co., for ventilators and galvanized iron.....	9 25	
Wallingford & Callaghan, for pipe, pails, labor, etc.....	23 90	
C. Zimmer, for keys and repairing lock.....	4 33	
Fairbairn Manufacturing Co., for grate bars.....	83 34	
American Soapstone Finish Co., for blackboard material.....	14 00	
C. B. Coburn & Co., for oil, alcohol, varnish, spirits turpentine, japan, shellac, glass, packing, pumice stone, lead, brushes, sponge, etc..	614 95	
Jonathan Kendall & Co., for lead, spirits turpentine, alcohol and japan.....	19 42	
Nichols & Fletcher, for powder, duallin, fuse and exploders.....	48 40	
A. F. Wright, for salt.....	75	
Charles A. Kendall, for drain pipe, cement, labor, etc.....	29 67	
Staples Bros., for drain pipe, traps, cement and gravel.....	194 91	
Charles W. Kimball, for gravel and loam.....	47 00	
William E. Livingston, for cement, sand, lime, brick, etc.....	59 44	
Lowell Gas Light Co., for stone....	3 38	
M. C. Pratt, for stone.....	45 99	
Boston Architectural Terra Cotta Works, for labor on ornamental work for Kirk street school-house.	40 40	
S. D. Butterworth, for mason work and material.....	220 35	
T. D. Bailey, for mason work and material.....	354 67	
E. W. Coburn, for mason work and material	1,384 92	
Frederick Frye, for mason work and material.....	28 50	
<i>Amounts carried forward</i>	<hr/> \$14,105 97	<hr/> \$28,167 89

Amounts brought forward..... \$14,105 97 \$28,167 89

Paid for SUNDRIES :

To John Labarge, for mason work and material	218 00	
D. M. Prescott, for mason work and material.....	138 38	
Ira Hartwell, for mason work and material.....	22 26	
Rollins & Sargent, for mason work and material.....	232 25	
Bowker, Torrey & Co., for slate....	56 74	
F. P. Coggeshall. for slate.....	1 50	
James Burns, for slate, zinc and labor	30 24	
Philip Ginty, for slate, zinc, nails and labor.....	21 61	
Luther Richards, for raising two school houses.....	70 00	
Proprietors of Locks and Canals on Merrimack River, for rent of land on Cheever and Tucker streets ...	1 00	
A. G. Whitcomb, for seats	36 00	
G. W. Sargent, for 40 trees and setting same	80 00	
E. A. & A. T. Smith, for concrete.	218 45	
S. B. Tallant & Co., for concrete...	770 51	
C. J. Hayward, for labor painting...	229 50	
Eastern Sale Stable, for keeping horse	41 42	
George W. Pearsons, for keeping horse, use of horse, travelling expenses, etc	447 47	
W. W. Aylward, for treatment of horse	6 00	
Francis Carll, for use of cart.....	7 50	
John Biggs, for labor.....	41 00	
Wyatt Stevens, for labor.....	7 50	
P. H. Brady, for labor with team...	2 25	
A. H. Chase, for labor with team...	1 00	
Thomas F. Fay, for labor with team.	62 00	
John Henry, for labor with team....	75	
John Harrington, for labor with team	75	
John Hanley, for labor with team...	1 50	
Timothy Kelley, for labor with team.	2 00	
D. P. Knowlton, for labor with team	10 00	
<i>Amounts carried forward</i>	\$16,863 55	\$28,167 89

Amounts brought forward..... \$16,863 55 \$28,167 89

Paid for SUNDRIES :

To James Leach, for labor with team...	50	
Frank S. Ladd, for labor with team.	50	
T. G. Little, for labor with team....	3	50
Merrimack House, for labor with team.....	94	50
Alphonso Merrill, for labor with team	4	00
Foster Perham, for use of horse.....	38	13
Samuel Pope, for use of horse.....	11	87
William Roberts, for labor with team	10	00
V. E. Roby, for labor with team....	18	00
James Slavin, for labor with team..	54	00
O. A. Simpson, for labor with team.	25	00
George E. Stanley, for freight and teaming.....	3	80
James Tryon, for labor with team...	8	25
A. J. Trueworthy, for labor with team.....	1	25
Samuel Tompkins, for labor with team.....	1	50
Peter E. Willard, for labor with team	72	00
Boston & Maine R. R., for transportation.....	22	37
Boston & Lowell R. R. Co., for transportation.....	8	96
		<hr/>
		17,241 68
Whole expenditure for the year.....		<hr/> <hr/> \$45,409 57

ROADS AND BRIDGES.

Appropriated and assessed in 1882..... \$85,000 00

RECEIPTS.

Received for SIDEWALK ASSESS-
MENTS, MATERIAL, LABOR,
ETC. :

IN JANUARY.

From	John H. McAlvin, for teaming coal,	\$4 07	
	Alanson Folsom, for labor and materials	6 93	
	Staples Bros., for sand and labor,	8 24	
	County of Middlesex. for labor...	3 50	
	George Runels, for edgestones and labor	33 77	
	John O'Hearn, for edgestones...	8 40	
	F. E. Bennett, for crushed stone..	3 00	
	E. W. Hoyt, for crushed stone...	5 00	
	Samuel Kidder, for crushed stone	8 00	
	Frederick Taylor, for crushed stone	4 50	
	Heirs of C. A. F. Swan, for side- walk assessment. Bridge street,	125 30	
	Joseph Turner, for sidewalk as- sessment, Broadway.....	66 23	
	Moses Marshall, for sidewalk as- sessment, Broadway.....	96 36	
	Albert L. Hinkley, for sidewalk assessment, Broadway.....	49 46	
	D. W. Farnsworth, for sidewalk assessment, Broadway.....	29 83	
	Joseph N. Wright, for sidewalk assessment, Columbus avenue..	56 70	
	<i>Amounts carried forward.....</i>	\$509 29	\$85,000 00

<i>Amounts brought forward</i>	\$509 29	\$85,000 00
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Received for SIDEWALK ASSESS-
MENTS, MATERIAL, LABOR,
ETC.:

IN JANUARY.

From Smith Adams, for sidewalk assess- ment, Columbus avenue.....	196 82	
Smith Adams, for sidewalk assess- ment, Columbus avenue.....	94 20	
Jacob O. Hill, for sidewalk assess- ment, Fremont street.....	32 40	
James Maynes, for sidewalk as- sessment, Keene street.....	37 23	
Ellen Lowney, for sidewalk assess- ment, Keene street.....	50 49	
William H. Whitworth, for side- walk assessment, Lyon street..	34 18	
Thomas Singleton, for sidewalk assessment, Lyon street.....	23 62	
Richard Tiffany, for sidewalk as- sessment, Lyon street.....	31 80	
Heirs of Sarah E. Collins, for side- walk assessment, Lyon street..	34 00	
Ellen Flynn, for sidewalk assess- ment, Lyon street.....	20 67	
John Ryden, for sidewalk assess- ment, Lyon street.....	30 69	
Patrick Horn, for sidewalk assess- ment, Lyon street.....	21 20	
Heirs of James Dewhurst, for side- walk assessment, Lyon street..	36 46	
Charles J. Glidden, for sidewalk assessment, Middlesex street..	27 75	
F. C. Miller, for sidewalk assess- ment, Middlesex street.....	21 80	
Smith Adams, for sidewalk assess- ment, Middlesex street.....	6 20	
W. A. Ingham, for sidewalk as- sessment, Middlesex street....	96 15	
Heirs of W. P. Webster, for side- walk assessment, Myrtle street.	22 70	
Mary D. Jordan, for sidewalk as- sessment, Phillips street.....	27 52	
P. G. Russell, for sidewalk assess- ment, School street.....	31 87	
<i>Amounts carried forward</i>	<hr/> \$1,387 04	<hr/> \$85,000 00

Amounts brought forward..... \$1,387 04 \$85,000 00

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN JANUARY.

From Mrs. S. A. Scripture, for sidewalk assessment, School street.....	49 35	
V. L. Wilson, for sidewalk assessment, School street.....	13 50	
D. W. Clement, for sidewalk assessment, School street.....	40 30	
A. C. Taylor, for sidewalk assessment, School street.....	15 15	
Charles J. Glidden, for sidewalk assessment, Wilder street.....	100 12	
George P. Walker, for sidewalk assessment, Wilder street.....	37 44	
Charles Griffin, for sidewalk assessment, Wilder street.....	67 37	
John D. Sullivan, for sidewalk assessment, Willie avenue.....	16 23	
	<hr/>	1,726 50

IN FEBRUARY.

From Appropriation for Schools, for sundries	\$133 77	
Appropriation for Aiken street, for labor, etc.....	559 75	
Appropriation for Water Works, for sundries.....	3 15	
Appropriation for Public Buildings for sundries.....	20 40	
Appropriation for Lighting, for sundries	30 55	
Appropriation for Sewers and Drains, for sundries.....	265 38	
Appropriation for Fire Department, for sundries.....	48 28	
Appropriation for Paupers, for sundries	1,279 68	
County of Middlesex, for labor...	36 75	
O. A. Simpson, for stone.....	9 00	
French & Puffer, for stone.....	3 00	
J. & P. O'Hearn, for blue stone..	7 82	
R. G. Bartlett, for labor.....	4 62	
	<hr/>	
<i>Amounts carried forward</i>	\$2,402 15	\$86,726 50

Amounts brought forward \$2,402 15 \$86,726 50

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN FEBRUARY.

From L. F. Jewell, for sidewalk assess- ment, Beech street	83 98	
Josiah Gates, for sidewalk assess- ment, Worthen street	46 47	
S. B. & A. H. Moore, for sidewalk assessment, Beech street	39 77	
William S. Taggard, for sidewalk assessment, Broadway	42 19	
A. K. Hood, for sidewalk assess- ment, Broadway	38 15	
J. M. Pearson, for sidewalk as- sessment, Willie avenue	29 20	
Mrs. J. E. Crane, for sidewalk as- sessment, Fremont street	24 84	
Thomas Jeffries, for sidewalk as- sessment, Crosby street	30 03	
C. H. Burt, for sidewalk assess- ment, Beech street	38 38	
Mrs. H. E. Sprague, for sidewalk assessment, School street	42 90	
James Gordon, for sidewalk as- sessment, Beech street	82 77	
E. W. Tallant, for sidewalk assess- ment, Coral street	15 00	
H. F. Barnes, for sidewalk assess- ment, Grand street	36 05	
Catherine C. Brown, for sidewalk assessment, Grand street	44 31	
Edward Cawley, for sidewalk as- sessment, Lyon street	78 75	
William Kelley, for sidewalk as- sessment, Willie street	15 60	
Mechanics Saving Bank, for side- walk assessment, Crosby street	22 00	
Mary J. Swan, for sidewalk assess- ment, Bridge street	53 00	
George W. Sanborn, for sidewalk assessment, Fremont street	23 76	
George W. Sanborn, for sidewalk assessment, Fremont street	24 30	
<i>Amounts carried forward</i>	<hr/> \$3,213 60	<hr/> \$86,726 50

Amounts brought forward \$3,213 60 \$86,726 50

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN FEBRUARY.

From Hugh Riley, for sidewalk assess- ment, Crosby street.....	28 22	
Robert Court, for sidewalk assess- ment, Coral street.....	15 00	
Isaac L. Libbey, for sidewalk as- sessment, Coral street.....	15 00	
Elizabeth N. Fellows. for sidewalk assessment, West Adams street.	67 97	
R. B. Randall, for sidewalk assess- ment, Fremont street.....	29 70	
Isaac Barr, for sidewalk assess- ment, Beech street.....	80 52	
Edward Short, for sidewalk assess- ment, Keene street.....	20 15	
Appropriation for School-Houses, for sidewalk assessment, Beech street.....	134 62	
	<hr/>	3,604 78

IN MARCH.

From Appropriation for Schools, for sun- dries	\$110 83	
Appropriation for School-Houses, for sundries.....	1 50	
Appropriation for Paupers, for sun- dries	544 00	
Appropriation for Police, for sun- dries.....	5 00	
Appropriation for Fire Department, for sundries.....	26 50	
Appropriation for Sewers and Drains, for sundries.....	124 00	
Appropriation for Commons, for sundries.....	208 78	
Appropriation for Lighting, for sundries.....	14 00	
Appropriation for Public Build- ings, for sundries.....	21 76	
Appropriation for Health, for sun- dries.....	416 76	
	<hr/>	
<i>Amounts carried forward</i>	\$1,473 13	\$90,331 28

Amounts brought forward \$1,473 13 \$90,331 28

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN MARCH.

From Appropriation for City Hall Build ing Lot, for sundries.....	14 88	
Appropriation for Aiken Street, for sundries.....	288 13	
Appropriation for Water Works, for sundries.....	8 90	
Reserved Fund, for sundries.....	15 89	
George B. Farnham, for stone and labor	19 97	
Charles A. Kendall, for labor.....	16 05	
Michael Corbett, for labor.....	6 62	
R. J. Thomas, for horse blanket..	2 00	
J. B. Labarge, for sidewalk assess- ment, Broadway.....	41 52	
Edward Cawley, for sidewalk as- sessment, Lyon street.....	30 87	
Maria Stockbridge, for sidewalk as- sessment, Broadway.....	56 39	
F. C. Beharell, for sidewalk assess- ment, Fremont street	23 65	
Thomas Beharell, for sidewalk as- sessment, Fremont street.....	31 97	
Margaret Foley, for sidewalk as- sessment, Crosby street	24 64	
Daniel Mahoney, for sidewalk as- sessment, Crosby street	15 40	
B. Frank Crosby, for sidewalk as- sessment, Moore street.....	30 80	
Heirs of L. J. Freeman, for side- walk assessment, Broadway....	43 50	
Theophilus Blaisdell, for sidewalk assessment, Coral street.....	15 00	
Solon W. Stevens, for sidewalk assessment, Grand street	39 20	
W. W. Carey, for sidewalk assess- ment, Broadway.....	5 98	
Ann Boyd, for sidewalk assess- ment, Fremont street	67 79	
	<hr/>	2,272 28
<i>Amount carried forward</i>		<hr/> \$92,603 56

Amount brought forward \$92,603 56

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN APRIL.

From Appropriation for Schools, for sun- dries.....	\$ 9 00	
Appropriation for Paupers, for sundries.....	357 50	
Appropriation for Fire Depart- ment, for sundries.....	14 95	
Appropriation for Commons, for sundries.....	51 30	
Appropriation for Sewers and Drains, for sundries	90 75	
Appropriation for Lighting, for sundries.....	19 05	
Appropriation for Health, for sun- dries.....	163 75	
Appropriation for Water Works, for sundries.....	18 30	
Appropriation for Aiken Street, for labor, etc	533 65	
Lorenzo Phelps, for wheelbarrow .	4 00	
A. C. Varnum, for crushed stone .	12 00	
Edwin A. Howe, for sidewalk as- sessment, Broadway.....	24 46	
Charles A. W. Fuller, for sidewalk assessment, Fremont street	44 55	
Estate of J. S. Phillips, for side- walk assessment, Broadway....	28 96	
Estate of J. S. Phillips, for side- walk assessment, Phillips street.	86 13	
Sarah J. Wright, for sidewalk as- sessment, Broadway.....	33 05	
Gilman G. Cook, for sidewalk as- sessment, Moore street.....	30 36	
Abram Gillard, for sidewalk as- sessment, Beech street	42 56	
Mark Hartford, for sidewalk as- sessment, Crosby street	31 08	
Samuel Kimball, for sidewalk as- sessment, Crosby street.....	17 05	
Albert D. Carter, for sidewalk as- sessment, Moore street.....	42 90	
<i>Amounts carried forward</i>	<u>\$1,655 35</u>	<u>\$92,603 56</u>

Amounts brought forward..... \$1,655 35 \$92,603 56

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN APRIL.

From George L. Fowler, for sidewalk assessment, Broadway.....	30 60
Cornelius Kearnes, for sidewalk assessment, Crosby street.....	18 26
George H. Noble, for sidewalk assessment, Broadway	66 25
Lowell Bleachery, for sidewalk assessment, Moore street.....	25 63
Lowell Bleachery, for sidewalk assessment, Moore street.....	201 85
Lowell Bleachery, for sidewalk assessment, Moore street.....	57 75
Lowell Bleachery, for sidewalk assessment, Moore street.....	71 50
George D. Furber, for sidewalk assessment, Grand street.....	25 20
Frank Goodwin, for sidewalk assessment, Coral street.....	15 00
J. E. Conant, for sidewalk assessment, Westford street.....	50 62
J. E. Conant, for sidewalk assessment, Lane street	52 70
Mrs. William Goldsmith, for sidewalk assessment, Fremont street	24 30
Adeline S. Blaisdell, for sidewalk assessment, Crosby street.....	18 86
French Protestant Church, for sidewalk assessment, Fletcher street.....	54 56
French Protestant Church, for sidewalk assessment, Bowers street.....	31 48
Thomas Grant, for sidewalk assessment, Willie street.....	15 60
Ira Thompson, for sidewalk assessment, Broadway.....	15 92
C. M. Langley, for sidewalk assessment, Fremont street.....	24 30
L. B. Moore, for sidewalk assessment, Moore street.....	145 64

<i>Amounts carried forward</i>	\$2,601 37	\$92,603 56
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Amounts brought forward \$2,601 37 \$92,603 56

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN APRIL.

From John E. Ryan, for sidewalk assess- ment, Broadway.....	38 22	
George M. Dole, for sidewalk as- sessment, Grand street.....	48 44	
J. P. Maxfield, for sidewalk assess- ment, Coral street.....	15 00	
Patrick Scollen, for sidewalk as- sessment, Willie street.....	15 60	
Benjamin Holt, for sidewalk as- sessment, Broadway.....	36 25	
Patrick Tighe, for sidewalk assess- ment, Crosby street.....	18 26	
T. & D. F. Regan, for sidewalk assessment, Crosby street.....	48 13	
Almira Kittredge, for sidewalk as- sessment, Fremont street.....	16 20	
W. S. McBrayne, for sidewalk as- sessment, Beech street	77 64	
Sarah Caverly, for sidewalk assess- ment, Beech street.....	37 83	
W. H. Simmons, for sidewalk as- essment, Grand street.....	47 25	
B. F. Stevens, for sidewalk assess- ment, Grand street.	58 24	
	<hr/>	3,058 43

IN MAY.

From Appropriation for Paupers, for sun- dries.....	\$113 60	
Appropriation for Fire Depart- ment, for sundries.....	22 30	
Appropriation for Sewers and Drains, for sundries.....	174 19	
Appropriation for Commons, for sundries.....	51 25	
Appropriation for Lighting, for sundries.....	26 49	
Appropriation for Health, for sun- dries	150 00	
Appropriation for Aiken street, for sundries.....	166 38	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$704 21	\$95,661 99

Amounts brought forward..... \$704 21 \$95,661 99

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN MAY.

From Mrs. John Nesmith, for stone....	72 75	
J. Bassett, for old brick.....	4 25	
Pevey Bros., for old iron.....	60 19	
J. V. Meigs, for stone and labor..	6 36	
W. H. Ward, for paving stone...	72 66	
Gilman G. Cook, for sidewalk as- essment, Moore street.....	30 14	
James Meadowcroft, for sidewalk assessment, Moore street.....	33 55	
James Meadowcroft, for sidewalk assessment, Moore street.....	324 50	
James Meadowcroft, for sidewalk assessment, Broadway.....	125 90	
D. P. Stacey, for sidewalk assess- ment, Fremont street.....	24 30	
Central Savings Bank, for side- walk, Crosby street.....	71 94	
Martin Dwyer, for sidewalk assess- ment, Crosby street.....	15 40	
Otis D. Spofford, for sidewalk as- essment, Moore street.....	23 65	
Butler & Chandler, for sidewalk as- essment, Moore street.....	119 79	
Mrs. William Hurd, for sidewalk assessment, Broadway	34 30	
Mrs. Moses Leach, for sidewalk assessment, Grand street.....	22 89	
William Leggett, for sidewalk as- essment, Broadway.....	29 32	
George F. Sturtevant, for sidewalk assessment, Broadway.....	60 77	
John McMann, for sidewalk as- essment, Crosby street	11 99	
Charles F. Hemenway, for side- walk assessment, Fremont street	34 40	
Wamesit Power Co., for sidewalk assessment, Crosby street.....	23 10	
Wamesit Power Co., for sidewalk assessment, Crosby street.....	73 98	
Albert Moors, for sidewalk assess- ment, Moore street	134 20	
	<hr/>	2,114 54
<i>Amount carried forward</i>		<hr/> \$97,776 53

Amount brought forward \$97,771 53

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN JUNE.

From Appropriation for Paupers, for sundries.....	\$107 50	
Appropriation for Fire Depart- ment, for sundries.....	25 60	
Appropriation for Sewers and Drains, for sundries	122 00	
Appropriation for Commons, for sundries.....	17 50	
Appropriation for Lighting, for sundries.....	31 90	
Appropriation for Health, for sun- dries.....	185 50	
Appropriation for Water Works, for sundries	1 00	
Appropriation for Aiken street, for sundries.....	312 85	
Reserved Fund, for sundries.....	3 94	
M. C. Pratt, for crushed stone...	4 00	
E. A. Smith, for edgestone and paving.....	22 68	
Puffer & Robbins, for edgestone..	77 00	
Charles C. Coburn, for sidewalk assessment, Fremont street....	78 57	
Michael Moran, for sidewalk as- sessment, Crosby street.....	27 50	
D. G. Skillings, for sidewalk as- sessment, Fremont street.....	97 74	
Heirs of Charles Hallinan, for side- walk assessment, Crosby street.	18 04	
Thomas Finnick, for sidewalk as- sessment, Keene street.....	21 42	
John Flynn, for sidewalk assess- ment, Keene street.....	17 34	
W. F. Downing, for sidewalk as- sessment, Broadway.....	53 30	
Mary Corr, for sidewalk assess- ment, Crosby street.....	16 50	
Peter Corr, for sidewalk assess- ment, Crosby street.....	38 39	
Phineas Whiting, for sidewalk as- sessment, Broadway.....	85 28	
<i>Amounts carried forward</i>	\$1,365 55	\$97,776 53

Amounts brought forward..... \$1,365 55 \$97,776 53

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC.:

IN JUNE.

From Robert G. Bartlett, for sidewalk assessment, Middlesex street...	37 70
William Manning, for sidewalk assessment, Broadway.....	158 03
Mary A. Corr, for sidewalk assessment, Lyon street.....	15 90
John White, for sidewalk assessment, Willie street.....	27 04
Mary J. Swan, for sidewalk assessment, Bridge street.....	57 71
Frank S. Smith, for sidewalk assessment, Keene street.....	44 88
Judith P. Downing, for sidewalk assessment, Willie street.....	25 58
C. M. E. Edson, for sidewalk assessment, Broadway.....	20 97
Thomas Donahoe, for sidewalk assessment, Crosby street.....	38 78
J. C. Jockow, for sidewalk assessment, Moore street.....	22 82
Margaret Conlan, for sidewalk assessment, Lyon street.....	32 33
Daniel Collins, for sidewalk assessment, Lyon street.....	45 05
Martin Redmond, for sidewalk assessment, Crosby street.....	27 50
J. C. Irish, for sidewalk assessment, Moore street.....	65 45
Martin Dwyer, for sidewalk assessment, Crosby street.....	57 48
Thomas H. Elliott, for sidewalk assessment, Broadway.....	54 41
Michael Tully, for sidewalk assessment, Crosby street.....	15 40
Henry H. Beard, for sidewalk assessment, Fremont street.....	32 40
Martin McDonald, for sidewalk assessment, Crosby street.....	27 50
D. G. Skillings, for sidewalk assessment, Beech street.....	70 48

Amounts carried forward..... \$2,242 96 \$97,776 53

Amounts brought forward \$2,242 96 \$97,776 53

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN JUNE.

From E. L. Cardell, for sidewalk as- essment, School street.....	38 99	
D. W. Barth, for sidewalk assess- ment, Beech street.....	86 10	
Alfred T. Cates, for sidewalk as- essment, Fremont street.....	28 62	
Charles E. Smith, for sidewalk as- essment, Moore street.....	43 67	
John G. Stedman, for sidewalk assessment, Wilder street.....	126 75	
William G. Howe, for sidewalk as- essment, Myrtle street.....	23 75	
Eliza, Mary Ann, Ellen and Michael Tully, for sidewalk as- essment, Crosby street.....	47 85	
B. F. Heald, for sidewalk assess- ment, Fremont street.....	24 30	
W. J. Meaney, for sidewalk as- essment, Crosby street.....	29 59	
Albert Moors, for sidewalk assess- ment, Moore street.....	52 80	
Edwin Lamson, for sidewalk as- essment, Columbus avenue....	63 85	
	<hr/>	2,809 23

IN JULY.

From Appropriation for Schools, for sundries.....	\$207 25	
Appropriation for School-Houses, for sundries.....	6 25	
Appropriation for Paupers, for sundries.....	256 24	
Appropriation for Fire Depart- ment, for sundries.....	16 60	
Appropriation for Sewers and Drains, for sundries.....	203 50	
Appropriation for Commons, for sundries.....	15 00	
Appropriation for Lighting, for sundries.....	31 75	
	<hr/>	
<i>Amounts carried forward</i>	\$736 59	\$100,585 76

Amounts brought forward \$736 59 \$100,585 76

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC.:

IN JULY.

From Appropriation for Public Buildings for sundries	28 13	
Appropriation for Health, for sun- dries	165 25	
Appropriation for Water Works, for sundries	2 00	
Appropriation for Aiken street, for sundries	276 20	
Reserved Fund, for sundries	19 00	
Charles A. Kendall, for labor, etc.	8 15	
Charles Kendall, for labor, etc. . .	10 81	
Pevey Bros., for old iron	22 88	
E. A. Smith, for edgestones and labor	22 12	
Daniel Stickney, for flagging	19 38	
Boston & Lowell R.R., for labor. .	5 32	
David G. Skillings, for sidewalk assessment, Beech street	81 99	
Skelton Heirs, for sidewalk assess- ment, Osgood street	62 23	
Ann Horne, for sidewalk assess- ment, Crosby street	21 17	
Owen Tully, for sidewalk assess- ment, Crosby street	88 83	
Michael Sexton, for sidewalk as- sessment, Crosby street	19 58	
Mary Hanley, for sidewalk as- sessment, Crosby street	50 05	
J. L. Thomson, for sidewalk as- sessment, Beech street	68 20	
D. Moody Prescott. for sidewalk assessment, Moore street	34 38	
S D. Butterworth, for sidewalk as- sessment, Moore street	32 73	
George W. Young, for sidewalk as- sessment, Middlesex street	31 10	
George W. Young, for sidewalk as- sessment, Middlesex street	47 95	
Edwin Lamson, for sidewalk as- sessment, Wilder street	64 55	
	<hr/>	1,918 59
<i>Amount carried forward</i>		\$102,504 35

Amount brought forward \$102,504 35

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN AUGUST.

From Appropriation for Schools, for sun- dries.....	\$38 69	
Appropriation for Paupers, for sundries.....	225 93	
Appropriation for Fire Depart- ment, for sundries.....	23 55	
Appropriation for Sewers and Drains, for sundries.....	136 32	
Appropriation for Commons, for sundries.....	95 63	
Appropriation for Lighting, for sundries.....	21 00	
Appropriation for Health, for sun- dries.....	161 55	
Appropriation for Aiken Street, for sundries.....	399 75	
Reserved Fund, for sundries.....	41 38	
Thomas J. Sanborn, for labor....	2 82	
Hugh Morrison, for filling.....	1 00	
F. W. Proctor, for edgestones and labor.....	19 90	
H. C. & J. F. Howe, for labor...	2 75	
E. A. Smith, for edgestones.....	8 36	
Staples Bros., for sand.....	1 25	
John M. Hodge, for sand.....	1 50	
H. & J. Morrison, for sidewalk as- sessment, Crosby street.....	18 42	
	<hr/>	1,199 80

IN SEPTEMBER.

From Appropriation for Schools, for sun- dries.....	\$430 87	
Appropriation for Paupers, for sundries.....	96 50	
Appropriation for Police, for sun- dries.....	25 50	
Appropriation for Fire Depart- ment, for sundries.....	50 63	
Appropriation for Sewers and Drains, for sundries.....	129 05	
	<hr/>	
<i>Amounts carried forward</i>	\$732 55	\$103,704 15

Amounts brought forward \$732 55 \$103,704 15

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC.:

IN SEPTEMBER.

From Appropriation for Lighting, for sundries.....	23 08	
Appropriation for Public Buildings, for sundries.....	6 56	
Appropriation for Health, for sundries.....	174 00	
Appropriation for School-Houses, for sundries.....	2 50	
Appropriation for Water Works, for sundries.....	50	
Appropriation for Aiken street, for sundries.....	400 50	
Reserved Fund. for sundries.....	6 56	
Lowell Horse Railroad Co., for labor	236 12	
Electric Light Co., for labor.....	3 12	
D. W. C. Farrington, for stone...	3 00	
A. A. Coburn, for stone.....	9 00	
Foster Perham, for stone.....	2 50	
D. R. Wallace, for labor	2 75	
Mrs. E. F. Sherman, for stone...	9 00	
Milton Aldrich, for stone.....	10 00	
F. A. Buttrick, for labor.....	2 13	
C. H. Hanson, for stone.....	1 00	
Sarah Stickney, for stone.....	50	
Charles C. Thompson, for edge-stone and labor.....	20 14	
J. W. Smith, for stone and labor.	6 75	
John Campbell, for bricks.....	40	
George E. Hooper, for stone.....	3 00	
F. B. Shedd, for stone.....	4 50	
John H. Harrington, for sidewalk-assessment, Fremont street....	29 16	
		1,689 32

IN OCTOBER.

From Appropriation for School-Houses, for sundries.....	\$1 00	
Appropriation for Paupers, for sundries.....	157 19	
Appropriation for Fire Department, for sundries.....	21 00	
<i>Amounts carried forward</i>	\$179 19	\$105,393 47

Amounts brought forward..... 179 19 \$105,393 47

Received for SIDEWALK ASSESS-
MENTS, MATERIAL, LABOR,
ETC. :

IN OCTOBER.

From Appropriation for Sewers and Drains, for sundries	591 86	
Appropriation for Intercepting Sewer, for sundries.....	160 97	
Appropriation for Lighting, for sundries.....	22 50	
Appropriation for Health, for sun- dries	172 70	
Appropriation for Water Works, for sundries.....	2 75	
Appropriation for Aiken Street, for sundries.....	592 36	
Appropriation for Central Bridge, for sundries.....	205 00	
Elisha Davis, for land on Congress street.....	155 75	
Boston & Lowell R. R., for paving	296 24	
John Ames, for flagging.....	4 25	
Greenwood Bros., for stone.....	6 00	
Thomas J. Sayers, for fuel.....	52 75	
O'Hearn Bros., for stone	5 50	
J. V. Meigs, for stone.....	6 00	
P. Dempsey, for stone and labor..	7 75	
T. P. Hall, for sidewalk assess- ment, Grove street	118 31	
Agnes E. Wilson, for sidewalk as- sessment, Grand street.....	66 36	
Carlos G. Pressey, for sidewalk as- sessment, Westford street.....	24 50	
	<hr/>	2,670 74

IN NOVEMBER.

From Appropriation for Schools, for sun- dries	\$5 38	
Appropriation for Paupers, for sun- dries	104 30	
Appropriation for Fire Department, for sundries.....	19 70	
Appropriation for Sewers and Drains, for sundries.....	376 07	
	<hr/>	
<i>Amounts carried forward</i>	505 45	\$108,064 21

Amounts brought forward \$505 45 \$108,064 21

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN NOVEMBER.

From Appropriation for Intercepting Sewer, for sundries	318 73	
Appropriation for Lighting, for sundries.....	12 75	
Appropriation for Health, for sun- dries.....	197 00	
Appropriation for Aiken street, for sundries.....	224 99	
Appropriation for Central Bridge, for sundries	224 12	
Appleton National Bank, on loan.	40,000 00	
A. F. Nudd, for coal.....	6 75	
W. H. Ward, for old timber	60 00	
C. B. Coburn & Co., for barrels..	8 70	
Thomas J. Sayers, for fuel.....	75 25	
Boutwell Bros., for old iron.....	20 46	
Thaddeus S. Cobb, for edgestones and labor.....	68 78	
James McKeever, for labor.....	3 75	
C. P. Talbot, for stone.....	3 00	
Patrick Lynch, for stone	7 50	
L. R. J. & D. H. Varnum, for edgestones and labor.....	34 62	
G. L. Huntoon, for paving.....	3 13	
Boston & Lowell R. R., for pav- ing.....	7 44	
Michael O'Laughlin, for sidewalk assessment, Chapel street.....	33 82	
Mrs. Amos Rugg, for sidewalk as- sessment, Somerset street.....	25 97	
David H. Wilson, for sidewalk as- sessment, Grand street.....	31 00	
Horace Parmenter, for sidewalk assessment, Grove street	117 40	
William P. Farrington, for side- walk assessment, Westford street	26 70	
Albert Partridge, for sidewalk as- sessment, Westford street.....	37 00	
Lowell Gas Light Co., for side- walk assessment, Rock street..	558 68	
<i>Amounts carried forward</i>	\$42,612 99	\$108,064 21

Amounts brought forward..... \$42,612 99 \$108,064 21

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN NOVEMBER.

From R. B. Caverly, for sidewalk assess- ment, Beech street.....	126 12	
F. A. Sawyer, for sidewalk assess- ment, Phillips street.....	28 72	
J. G. Stedman, for sidewalk as- sessment, Columbus avenue....	160 44	
J. G. Stedman, for sidewalk as- sessment, Columbus avenue....	207 45	
	<hr/>	43,135 72

IN DECEMBER.

From Appropriation for Schools, for sun- dries	\$58 87	
Appropriation for School Houses, for sundries	24 25	
Appropriation for Paupers, for sun- dries.....	628 60	
Appropriation for Fire Depart- ment, for sundries.....	60 60	
Appropriation for Sewers and Drains, for sundries.....	763 88	
Appropriation for Intercepting Sewer, for sundries.....	658 25	
Appropriation for Commons, for sundries.....	53 13	
Appropriation for Lighting, for sundries.....	46 03	
Appropriation for Public Build- ings, for sundries.....	7 00	
Appropriation for City Hall Build- ing Lot, for sundries.....	3 51	
Appropriation for Health, for sun- dries.....	276 00	
Appropriation for Water Works, for sundries.....	217 20	
Appropriation for Aiken Street, for sundries.....	1,640 64	
Appropriation for Central Bridge, for sundries.....	714 39	
Appropriation for Buildings at City Farm, for sundries	45 20	
	<hr/>	
<i>Amounts carried forward</i>	\$5,197 55	\$151,199 93

Amounts brought forward..... \$5,197 55 \$151,199 93

Received for SIDEWALK ASSESS-
MENTS, MATERIALS, LABOR,
ETC. :

IN DECEMBER.

From Reserved Fund, for sundries	113 15	
Langley & Smith, for old iron.....	139 22	
John C. Woodward, for labor.....	60 50	
J. Labarge, for flagging.....	8 16	
Joseph Tyrrell, for granite.....	6 00	
Howes & Burnham, for stone	3 00	
Old Ladies' Home, for sidewalk assessment, Fletcher street.....	88 19	
Albert A. Davis, for sidewalk as- sessment, Rock street.....	24 52	
William H. Wiggin, for sidewalk assessment, Rock street.....	37 49	
Charles F. Emerson, for sidewalk assessment, Westford street....	24 50	
	<hr/>	5,702 28
		<hr/>
		<u>\$156,902 21</u>

EXPENDITURES.

Paid SUPERINTENDENT OF STREETS
AND CIVIL ENGINEER :

To John C. Woodward, Superintendent of Streets (salary).....	\$1,800 00	
George E. Evans, Civil Engineer (salary).....	2,400 00	
	<hr/>	\$4,200 00

Paid SUNDRY PERSONS FOR LA-
BOR, AS PER MONTHLY PAY-
ROLLS :

In January	\$5,554 65	
February.....	4,706 17	
March	4,759 75	
April	5,083 65	
May.....	5,852 69	
June.....	5,442 47	
July.....	7,594 03	
August	7,117 66	
September.....	5,940 25	
October.....	6,563 15	
November.....	6,122 29	
December	3,221 73	
	<hr/>	67,958 49
		<hr/>
<i>Amount carried forward</i>		\$72,158 49

Amount brought forward..... \$72,158 49

Paid for HAY, GRAIN, ETC. :

To Appropriation for Paupers, for hay..	\$62 90	
E. F. Blake, for hay	50 21	
H. R. Barker, for hay.....	256 51	
P. Cummiskey, for hay.....	328 95	
F. F. Carey, for hay and straw.....	61 06	
E. F. Coburn, for straw.....	32 98	
S. A. Coburn, for hay.....	426 88	
P. Connors, for hay.....	33 71	
S. Clough, for hay.....	210 85	
L. W. Dyar, for straw	65 65	
W. P. Foye, for grain.....	444 60	
W. A. Giles, for hay.....	13 28	
A. Giles, for hay.....	14 95	
Charles Goodwin, for straw.....	13 34	
B. E. Hale, for grain	387 98	
A. W. Howe, for carrots.....	130 92	
L. W. Jenness, for hay	458 16	
William E. Livingston, for grain ...	2,272 22	
Benjamin Lawrence, for hay.....	66 60	
C. L. Nutting, for hay.....	111 78	
G. F. Penniman, for hay.....	63 91	
M. C. Pratt, for hay.....	160 37	
W. F. Richardson, for hay.....	165 81	
E. T. Rowell, for hay.....	479 29	
Charles D. Starbird, for hay and straw	499 15	
B. F. Simpson, for hay.....	27 77	
Stiles, Rogers & Co., for grain	913 74	
Thomas W. Simpson, for hay.....	33 12	
Warren Spalding, for hay.....	45 54	
Thomas Varnum, for hay.....	280 27	
D. S. Wood, for hay.....	18 64	
William H. Wiggin, for hay	131 72	
S. Woods, for hay.....	15 98	
Samuel N. Wood & Son, for grain..	1,220 28	
A. Wright, for hay	18 86	
		9,517 98

Paid for LUMBER, STONE, BRICK,
CONCRETE, ETC. :

To Appropriation for Sewers and Drains, for brick and labor.....	\$141 95	
Appropriation for Water Works, for plank.....	88	
<i>Amounts carried forward</i>	\$142 83	\$81,676 47

<i>Amounts brought forward</i>	\$142 83	\$81,676 47
Paid for LUMBER, STONE, BRICK, CONCRETE, ETC.:		
To Badger & Holmes, for lumber and labor	100 47	
A. P. Bateman, for lumber	33 70	
Davis & Sargent, for lumber.....	82 40	
Howes & Burnham, for lumber and labor	758 88	
M. C. Pratt & Co., for lumber.....	6 50	
J. W. B. Shaw, for chestnut plank..	99 04	
Lowell Machine Shop, for old lum- ber	25 00	
C. B. Stevens & Son, for lumber and labor	18 75	
Whitney & Tibbetts, for lumber	672 41	
T. J. McDuffy, for filling.....	102 00	
Charles D. Starbird, for stone, sand and gravel.....	272 10	
Robert Wood, for gravel	12 30	
Robert Gardner, for breaking paving stones	2,533 70	
C. W. Kimball, for stone.....	131 00	
John Marinal, for flagging.....	1,200 10	
William Reed, for flagging.....	32 49	
Sweatt & Davis, for edgestone.....	7 53	
Smith & Sweatt, for paving stone...	21,775 82	
Smith & Sweatt, for edgestone and flagging.....	4,432 53	
Smith & Sweatt, for bound stone...	30 00	
E. A. & A. T. Smith, for gravel....	219 50	
E. A. & A. T. Smith, for concrete..	3,927 71	
S. B. Tallant, for concrete.....	365 50	
John W. Robinson, for repairing side- walk	13 30	
	<hr/>	36,995 56
Paid for IRON, STEEL, HARD- WARE, TOOLS, ETC.:		
To Charles E. Adams, for hardware and tools.....	\$321 01	
John C. Bennett, for hardware and tools.....	49 76	
Thomas Duckles, for hardware.....	50	
H. A. Fielding, for hardware and tools	165 85	
	<hr/>	
<i>Amounts carried forward</i>	\$537 12	\$118 672 03

Amounts brought forward..... \$537 12 \$118,672 03

Paid for IRON, STEEL, HARD-
WARE, TOOLS, ETC.:

To H. B. Shattuck, for hardware and tools.....	62 83	
Frederick Taylor, for hardware and tools.....	475 87	
Sager Ashworth & Co., for files and labor	58 25	
Boutwell Bros., for iron, steel, etc...	533 17	
Buff & Berger, for steel tape and level-rod.....	21 50	
Cole & Nichols, for castings.....	29 34	
Richard Dobbins, for repairing stone- crusher	15 75	
A. Andrews, for hammer handles...	14 75	
American Bolt Co., for spikes and bolts.....	27 55	
Farrell Foundry and Machine Co., for castings and labor.....	653 53	
Massachusetts Cotton Mills, for wire rope, hooks, etc.....	34 87	
A. Nourbourn, for repairing stone- crusher	8 40	
Henry J. Williams, for repairing stone-crusher	8 00	
D. H. Wilson & Co., for copper sprinkler	53 90	
William Robinson, for repairing stone-crusher, etc.....	29 97	
Henry N. Stone, for repairing street- sweeper.....	2 41	
Warren Shedd, for broom material..	10 01	
George H. Sampson, for battery....	25 00	
		2,602 22

Paid for CARRIAGES, HARNESS-
ES, ETC.:

To S. L. Butman, for harnesses, robe and repairing harnesses.....	\$352 75	
J. A. Brabrook, for baskets and re- pairing harnesses.....	65 84	
Brabrook & Ebert, for repairing har- nesses	7 80	
T. M. Bolton & Co., for repairing harnesses, etc.....	437 05	
<i>Amounts carried forward</i>	\$863 44	\$121,274 25

Amounts brought forward..... \$863 44 \$121,274 25

Paid for CARRIAGES, HARNESS-
ES, ETC. :

To A. H. Cluer, for collar and muzzle..	6 00	-
M. Meaney, for horse cover and labor	5 50	
Sawyer & Taylor, for repairing har- nesses, painting carriage, etc.....	158 65	
Archibald Wheel Co., for wheels and axles	218 71	
E. P. Bryant, for repairing carriage.	50	
C. B. Relyea, for repairing carriages	32 91	
C. A. Ross, for repairing carriages..	46 75	
J. J. Wright, for wheels, etc.....	30 00	
	<hr/>	1,362 46

Paid for HORSES :

To Appropriation for Commons, for horse	\$75 00	
Gilbert Boutin, for horse.....	275 00	
Charles Clapp, for horses.	1,150 00	
J. L. & J. G. Noyes, for horses....	625 00	
Samuel Pope, for difference between horses exchanged.....	290 00	
Bernard Riley, for horse.....	250 00	
Robert Wood, for horse.....	250 00	
	<hr/>	2,915 00

Paid for LAND AND DAMAGES :

To David Bradt, for interest on amount paid for land in 1881.....	\$51 64	
James Farley, for damage caused by grading East Merrimack and Stack- pole streets.....	435 00	
Heirs of Charles G. Sargent, for damage caused by grading Bowers street in 1879.....	50 00	
William Manning, for 623 feet of land taken to straighten Congress street	155 75	
Proprietors of Locks and Canals on Merrimack River, for 700 feet of land taken in laying out a portion of Broadway.....	175 00	
Estate of Elijah M. Read, for 2,350 feet of land taken in laying out a portion of Fayette street.....	2,250 00	
	<hr/>	3,117 39

Amount carried forward \$128,669 10

Amount brought forward..... \$128,669 10

Paid for SUNDRIES :

To Appropriation for School Houses, for lumber, etc.....	\$6 91	
Appropriation for Paupers, for wood	25 75	
Appropriation for Sewers and Drains, for sewer assessment, West Clark street, brick, engineering, etc....	195 65	
Appropriation for Lighting, for fix- tures in lighting-house.....	100 00	
Appropriation for Public Buildings, for labor	38 64	
Appropriation for Water Works, for use of water.....	177 55	
Appropriation for Water Works, for pipe and iron	9 92	
Appropriation for Central Bridge, for reading-glass and metallic tape	4 50	
E. C. Ayer, for repairing engine....	6 64	
O. E. Averill, for blacksmithing....	15	
H. R. Barker, for pipe, fittings, labor, etc.....	39 63	
T. Costello & Co., for repairing stoves	19 40	
E. M. Foster, for pipe, solder, labor, etc	12 13	
T. R. Garity & Co., for pipe, fit- tings, packing and labor.....	137 77	
S. H. Jones, for water fixtures.....	1 75	
S. G. Mack & Co., for iron, pails, dippers, can, labor, etc.....	22 35	
H. H. Wilder & Co., for oil cans...	1 50	
C. Zimmer, for key.....	35	
Ariston Grover, for branding-iron...	2 00	
C. T. Haskell, for filing saws.....	12 11	
J. H. Haskell, for filing saws.....	12 70	
George Thatcher, for repairing clock	1 25	
Buttrick & Co., for hops, sulphur, mustard and ginger.....	2 00	
C. F. Blanchard, for medicine for horses	9 10	
Carleton & Hovey, for tunnels, filters, etc.....	46	
W. W. Duncan, medicine for horses	6 75	
John Burk, for oil and wicks.....	1 52	

Amounts carried forward..... \$848 48 \$128,669 10

Amounts brought forward..... \$848 48 \$128,669 10

Paid for SUNDRIES :

To C. B. Coburn & Co., for oil, waste, burlap, brooms, paint, brushes, packing, hose, glass, etc.....	220 98	
H. C. Church & Son, for manila pa- per and ink.....	3 04	
F. H. Chandler, for oatmeal.....	49 00	
Henry Edwards, for horse brushes..	12 83	
Fiske & Spalding, for tracing cloth, ink and painting signs.....	11 70	
French & Puffer, for basket, brush and vase.....	85	
J. P. Folsom & Co., for flannel, batting and crash.....	2 59	
L. T. Farris, for soap.....	1 00	
J. Gates & Sons, for belting, leather, and oil.....	25 43	
Hartwell & Co., for broom and salt.	70	
J. F. Hayes, for medicine for horses	13 50	
J. R. Hayes, for medicine for horses	7 65	
A. L. Kittredge, for drawing paper.	5 00	
F. J. Ladd & Co., for oil.....	169 01	
William E. Livingston, for coal, lime and sand.....	187 85	
S. G. Lyford, for oil and cans.....	2 50	
A. L. Ready, for rope.....	29 47	
Julian A. Richardson, for hogs.....	50 00	
J. B. Richardson & Sons, for salt...	1 75	
E. M. Smith, for medicine for horses	3 00	
J. P. Scollay & Co., for polishing oil	7 00	
Nichols & Fletcher, for powder, dualine, fuse and exploders.....	230 28	
H. B. & H. M. Bacon, for police badge.....	1 50	
Lowell Gas Light Co., for gas.....	117 17	
Lowell District Telephone Co., for telephone service.....	15 15	
Eastern Telephone Co., for telephone service.....	30 25	
Telephone Co's., for telephone service	22 00	
Town of Dracut, for taxes of 1882..	15 00	
J. P. Fowler and L. A. Ham, for use of steamboat and labor.....	150 00	
Thomas G. Gerrish, Jr., for use of boat.....	20 00	
<i>Amounts carried forward</i>	\$2,254 68	\$128,669 10

Amounts brought forward..... \$2,254 68 \$128,669 10

Paid for SUNDRIES :

To V. L. Wilson, for construction and use of bridge across Merrimack river.....	6,556 85	
V. L. Wilson, for plank for floating bridge.....	8 00	
William H. Wiggin, for lumber, labor, etc., in construction of floating bridge.....	369 72	
M. P. Sias, for driving piles.....	112 00	
William H. Ward, for 482½ feet of bridge across Merrimack river, at \$3.43 per foot.....	1,654 97	
William H. Ward, for removing ruins of Central bridge.....	200 00	
William H. Ward, for use of engine, derrick, labor, etc.....	126 88	
J. W. Bennett & Co., for lumber, labor, etc., on floating bridge....	307 21	
Tremont and Suffolk Mills, for lumber.....	44 35	
O. A. Simpson, for use of derrick and labor.....	160 43	
C. B. Stevens & Son, for labor on floating bridge.....	6 90	
S. N. Proctor, for labor on floating bridge.....	42 50	
James Caton, for use of boat.....	2 00	
George Boyle, for labor.....	3 00	
Patrick Burk, for labor.....	3 00	
William Corbett, for labor.....	3 00	
James Chambers, for labor.....	3 00	
Patrick Ford, for labor.....	3 00	
John McKeon, for labor.....	5 00	
Thomas McCormick, for labor.....	6 00	
Robert Story, for labor.....	3 00	
Bacheller, Dumas & Co., for paper and repairing books.....	4 50	
F. P. Coggeshall, for paper, ink, ink-stands, rubber stamps, blank books, pencils, erasers, etc.....	33 45	
J. Merrill & Son, for paper, pens, etc.....	2 80	
Marston & Prince, for blank book..	80	
A. Whitney, for blank books and paper.....	6 42	
<i>Amounts carried forward</i>	\$11,923 46	\$128,669 10

Amounts brought forward..... \$11,923 46 \$128,669 10

Paid for SUNDRIES :

To Pulsifer, Jordan & Wilson, for chemical drawing paper.....	20 15
Campbell & Hanscom, for advertising.....	12 25
Citizen Newspaper Co., for advertising.....	9 50
Huse, Goodwin & Co., for printing.	5 25
Stone, Bacheller & Livingston, for advertising.....	7 88
Marden & Rowell, for advertising...	11 63
Morning Mail Co., for advertising..	3 00
George E. Evans, postage stamps, cloth, etc.....	6 26
Melvin B. Smith, for services as engineer.....	45 00
Frank W. Searle, for services in engineer's office.....	2 50
Robert Wood, for medical attendance and treatment of horses.....	80 50
M. Maguire, for medicine for horses and washing at stable.....	14 15
E. R. Blair, for use of water.....	2 00
Joseph Dempsey, for clipping horse.	3 00
John H. Dempsey, for clipping horse	5 00
John L. Hill, for whitewashing Central bridge, etc.....	54 50
Richard Martin, for lighting on Bridge street.....	18 50
Charles Clapp, for use of horses....	180 12
G. L. Huntoon, for carriage hire....	6 00
E. J. Noyes, for use of horses and keeping horse.....	24 25
J. L. Noyes & Son, for use of horses	167 25
Samuel Pope, for use of horses.....	156 05
Levi M. Aldridge, for use of wagon.	33 00
George Bissell, for labor with team..	56 25
B. G. Brown, for labor with team...	144 00
Thomas Finnick, for labor with team	138 37
C. W. Kimball, for labor with team.	183 00
A. Lew, for labor with team.....	6 00
Frank Mehan, for labor with team..	3 75
Thomas Mooney, for labor with team	103 50
F. H. Penniman, for labor with team	97 87
Bernard Riley, for labor with team..	63 00

Amounts carried forward..... \$13,586 94 \$128,669 10

Amounts brought forward..... \$13,586 94 \$128,669 10

Paid for SUNDRIES :

To William Roberts, for labor with team	75	
O. A. Simpson, for labor with team, etc.....	40 62	
C. P. Salls, for labor with team.....	117 00	
Watson Bros., for labor with team..	46 12	
John A. Whidden, for labor with team	76 50	
C. H. Whitney, for labor with team.	13 56	
A. C. Varnum, for trimming trees..	2 25	
Boston & Lowell and Concord Rail- roads, for transportation.....	8 69	
Old Colony Railroad, for transpor- tation	38 78	
Boston & Maine Railroad, for trans- portation.....	1 35	
Penniman & Co.'s Express, for transportation.....	25	
U. S. & Canada Express, for trans- portation	4 70	
	<hr/>	13,937 45
Whole expenditure for the year.....		*\$142,606 55
Transferred to Appropriations for School- Houses		3,121 13
Balance undrawn January 1, 1883		11,174 53
		<hr/>
		\$156,902 21

* From this deduct :

Amount received for sidewalks, fuel, labor, material, etc.....	\$17,212 40
Amount paid for land and damages....	3,117 39
Extra expense caused by the burning of Central bridge.....	11,572 42
	<hr/>
	\$31,902 21
Making the expenditure for ordinary street purposes.....	<hr/> 110,704 34

RESERVED FUND.

Balance undrawn January 1, 1882	\$1,047 83	
	<hr/>	1.047 83

RECEIPTS.

Received into the TREASURY:

From Appropriation for Paupers, for sundries.....	\$2 52	
Sundry persons, for use of Huntington Hall.....	7,082 50	
Sundry persons, for use of Jackson Hall.....	2 00	
Old Sixth Regiment Association, for use of reception room.....	75	
Commonwealth, for rent of armories.....	800 00	
County of Middlesex, for rent of Police Court rooms.....	750 00	
C. P. Talbot & Co., for rent of store in Market House Building	1,200 00	
Carleton & Hovey, for rent of store in City Hall Building	1,200 00	
Percia L. Dyar, for rent of store in City Hall Building.....	900 00	
Mrs. S. A. Proper, for rent of store in City Hall Building.....	825 00	
W. H. Cole, for rent of store in City Hall Building.....	507 50	
A. Larkin, for rent of store in City Hall Building.....	92 50	
Joseph S. Anderson, for rent of store in City Hall Building.....	150 00	
Samuel A. McPhetres, City Clerk, for marriage certificates	320 00	
	<hr/>	
<i>Amounts carried forward.....</i>	\$13,832 77	<hr/> \$1,047 83

Amounts brought forward \$13,832 77 \$1,047 83

Received into the TREASURY :

From Samuel A. McPhetres, City Clerk, for recording mortgages, assign- ments, etc.....	503 60
Samuel A. McPhetres, City Clerk, for sundry licenses, etc.....	913 45
Samuel M. Patterson, Superinten- dent of City Scales, for fees for weighing.....	105 65
Samuel M. Patterson, Measurer of Wood and Bark, for fees for measuring.....	29 25
A. P. Lake, Superintendent of City Scales, for fees for weigh- ing.....	594 22
A. P. Lake, Measurer of Wood and Bark, for fees for measuring	300 09
James Murphy, Scaler of Weights and Measures, for fees.....	203 67
J. W. B. Shaw, Milk Inspector, for licenses and registry	63 50
John H. McAlvin, City Treasurer and Collector of Taxes, on ac- count of liquor licenses.....	21,525 00
John H. McAlvin, City Treasurer and Collector of Taxes, for cost of preparing sundry estates for sale for non-payment of taxes..	65 13
J. M. G. Parker and C. F. Going, for amount over and above the taxes, cost and interest on es- tates sold for non-payment of taxes of 1881, as follows :	
Estate of Nicholas Campbell.....	34 52
Heirs of Franklin G. Norris.....	42 45
Michael S. Shea.....	93 36
George W. Pearson, Superintend- ent, for rent of Ward rooms....	420 25
Hope Boat Club, for rent of school- house on First street.....	8 00
E. H. Morse, for overdraft	1 00
Bachelor, Dumas & Co., for over- draft	14 50

<i>Amounts carried forward</i>	\$38,750 41	\$1,047 83
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Amounts brought forward..... \$38,750 41 \$1,047 83

Received into the TREASURY :

From Francis Carll, under resolution of City Council, approved March 30, 1882	432 04
Elias Lyon, for labor on lots and sale of loam at Edson Cemetery	138 50
Edward T. Swan, for labor, etc., at Edson Cemetery.....	70 25
George Suttle, for 87 $\frac{3}{4}$ cords of wood taken from Edson Ceme- tery	65 82
Town of Tewksbury, for taxes paid by City of Lowell	500 28
E. W. Trueworthy, Superintendent of Burials, it being the amounts received of sundry persons for labor on lots in the Edson Cemetery, as follows :	
Alexander Andrews, Lot 349, Sec- tion Z	10 00
F. W. Proctor, Lot 375, Section Z	7 50
J. W. Proctor, Lot 374, Section Z	10 00
Asa B. Carle, Lot 350, Section Z.	10 00
Mrs. John H. Maxfield, Lot 11, Section Y	2 00
W. G. Eaton, Superintendent of Burials, it being the amounts re- ceived of sundry persons for la- bor on lots in the Edson Ceme- tery, as follows :	
Alfred Sandblom, Lot 7, Section Y	2 00
W. H. Newcomb, Lot 8, Section Y	2 00
Mrs. C. B. Wright, Lot 365, Sec- tion Z	10 00
George A. Chase, Lot 359, Sec- tion Z.....	10 00
H. R. Weston, Lot 355, Section Z	10 00
George E. Martin, Lot 391, Sec- tion Z.....	10 00
Robert Chatterton, Lot 405, Sec- tion Z.....	7 50
G. H. Cole, Lot 410, Section Z...	7 50
Leonard Hartley, Lot 398, Sec- tion Z.....	10 00

<i>Amounts carried forward</i>	\$40,065 80	\$1,047 83
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Amounts brought forward..... \$40,065 80 \$1,047 83

Received into the TREASURY :

From L. H. Jones, Lot 390, Section Z..	10 00	
F. H. Cram, Lot 382, Section Z..	7 50	
E. A. Dunham, Lot 6, Section Y.	2 00	
William Jenkins, Lot 14, Section Y.....	2 00	
J. W. Brooks, Lot 10, Section Y.	2 00	
C. F. Greenard, Lot 380, Section Z	7 50	
J. H. Ashworth, Lot 364, Section Z.....	10 00	
	<hr/>	40,106 80
		<hr/>
		<u>\$41,154 63</u>

EXPENDITURES.

Paid MEASURER OF WOOD AND
BARK and SUPERINTENDENT
OF CITY SCALES :

To Allen P. Lake, measurer, salary....	\$600 00	
Allen P. Lake, superintendent, salary	200 00	
	<hr/>	800 00

Paid for SERVICES OF WARD OFFICERS :

WARD ONE.

To William Hart, Warden.....	\$3 00	
James F. Sullivan, Warden.....	5 00	
Joseph F. Convery, Warden.....	5 00	
Lawrence J. McDonough, Clerk....	13 00	
William D. Brown, Inspector.....	2 00	
Timothy H. Brennan, Inspector....	8 00	
Thomas J. Duffy, Inspector.....	5 00	
William J. Johnson, Inspector.....	3 00	
Peter F. Kelley, Inspector.....	6 00	
James H. Morrison, Inspector.....	8 00	
George W. Reed, Inspector.....	6 00	
James D. Sullivan, Inspector.....	8 00	
G. A. Scribner, Inspector.....	2 00	
	<hr/>	74 00

WARD TWO.

To Robert L. Read, Warden.....	\$13 00	
Horace E. Grover, Clerk.....	5 00	
George W. Brothers, Clerk.....	5 00	
	<hr/>	
<i>Amounts carried forward</i>	\$23 00	\$874 00

RESERVED FUND.

73

Amounts brought forward..... \$23 00 \$874 00

Paid for SERVICES OF WARD OFFICERS:

WARD TWO.

To David M. Lackie, Clerk.....	3 00	
Terrence F. Cassidy, Inspector.....	8 00	
Martin O'Hearn, Inspector.....	3 00	
Charles A. Parker, Inspector.....	8 00	
Frank B. Peabody, Inspector.....	8 00	
Frank J. Sherwood, Inspector.....	5 00	
William E. Westall, Inspector.....	8 00	
		66 00

WARD THREE.

To Charles J. Heeren, Warden.....	\$13 00	
James Carroll, Clerk.....	3 00	
George B. McKenna, Clerk.....	5 00	
John Teague, Clerk.....	5 00	
W. S. Baker, Inspector.....	8 00	
Benjamin F. Crosby, Inspector.....	8 00	
James Cassily, Inspector.....	6 00	
James F. Dwyar, Inspector.....	2 00	
Frank J. Donahoe, Inspector.....	2 00	
John H. Keenan, Inspector.....	8 00	
Michael F. Maguire, Inspector.....	5 00	
Charles A. Peirce, Inspector.....	6 00	
John F. Rogers, Inspector.....	3 00	
		74 00

WARD FOUR.

To David Lane, Warden.....	\$13 00	
Charles E. Carter, Clerk.....	13 00	
William H. Blaney, Inspector.....	5 00	
William L. Davis, Inspector.....	8 00	
Daniel J. Frye, Inspector.....	6 00	
Irving K. Goodale, Inspector.....	2 00	
Charles F. Manahan, Inspector.....	8 00	
George A. Roper, Inspector.....	8 00	
Holland Strceter, Inspector.....	8 00	
		71 00

WARD FIVE.

To George W. Batchelder, Warden....	\$3 00	
Frederick Holton, Warden.....	10 00	
George E. Worthen, Clerk.....	13 00	
Frank Coburn, Inspector.....	3 00	
John H. Lynch, Inspector.....	8 00	
<i>Amounts carried forward</i>	\$37 00	\$1,085 00

<i>Amounts brought forward</i>	\$37 00	\$1,085 00
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Paid for SERVICES OF WARD OFFICERS :

WARD FIVE.

To David W. O'Brien, Inspector.....	2 00	
Morton N. Peabody, Inspector.....	8 00	
Edward B. Peirce, Inspector.....	8 00	
Walter J. Pettingell, Inspector.....	6 00	
Edward W. Thompson, Inspector....	8 00	
	<hr/>	69 00

WARD SIX.

To Nathenial C. Sanborn, Warden.....	\$13 00	
Arthur C. Folsom, Clerk.....	5 00	
Henry Hoole, Clerk.....	8 00	
George B. Appleton, Jr., Inspector.	3 00	
Alfred M. Chadwick, Inspector.....	3 00	
William Christie, Inspector.....	2 00	
John Doyle, Inspector.....	8 00	
Arthur C. Folsom, Inspector.....	3 00	
William B. Goodwin, Inspector.....	8 00	
George W. S. Hurd, Inspector.....	6 00	
Edward E. Ripley, Inspector.....	3 00	
Rinaldo H. Tyler, Inspector.....	8 00	
	<hr/>	70 00

Paid for SERVICES OF CLERKS,
JANITORS, ETC. :

To Guy Morey, for services in City Treasurer's office.....	\$780 00	
John F. Burrill, for services in City Treasurer's office.....	136 00	
Frank W. Searle, for services as Assistant City Clerk.....	620 00	
Lysson Gordon, for services as Assistant City Clerk.....	166 25	
John F. Burrill, for services in City Clerk's office.....	17 00	
Belle C. Hill, for services in City Clerk's office.....	416 02	
Albert J. Donnell, for services in Auditor's office.....	144 00	
William H. Bermingham, for services in Assessors' office.....	32 50	
William J. Enwright, for services in Assessors' office.....	30 00	
	<hr/>	
<i>Amounts carried forward</i>	\$2,341 77	\$1,224 00

RESERVED FUND.

75

<i>Amounts brought forward</i>	\$2,341 77	\$1,224 00
Paid for SERVICES OF CLERKS, JANITORS, ETC.:		
To Henry J. McAlvin, for services in As- sessor's office.....	32 50	
Stephen J. Kirby, for services in As- sessor's office	667 88	
Daniel Murphy, Jr., for services in Assessors' office.....	290 00	
Robert L. Read, for services in As- sessor's office.....	270 00	
Edward W. Thompson, for services in Assessors' office.....	68 75	
Charles Patnaud, for services as in- terpreter for Assessors.....	10 13	
James W. Cummiskey, for services as clerk for Committee on State Aid	780 00	
Charles W. Savage, for services as Registrar of Voters.....	250 00	
John J. Hogan, for services as Regis- trar of Voters.....	250 00	
Robert L. Read, for services as clerk for Registrars of Voters.....	62 00	
Joseph W. Tapley, for services as clerk for Registrars of Voters....	7 50	
A. Josie Wheeler, for services as clerk to Registrars of Voters.....	46 50	
John S. D'Evelyn, for services ex- amining accounts of the City Treas- urer	25 00	
James Marren, for ascertaining the number of births in Ward One in 1881	28 60	
William W. Read, for ascertaining the number of births in Ward Two in 1881.....	24 20	
David Lane, for ascertaining the num- ber of births in Wards Three and Four in 1881.....	61 30	
Levi B. Stevens, for ascertaining the number of births in Ward Five in 1881.....	31 50	
Samuel G. Cressey, for ascertaining the number of births in Ward Six in 1881	27 10	
<i>Amounts carried forward</i>	<hr/> \$5,274 73	<hr/> \$1,224 00

<i>Amounts brought forward</i>	\$5,274 73	\$1,224 00
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Paid for SERVICES OF CLERKS,
JANITORS, ETC.:

To John F. Cosgrove, for serviees as janitor of Huntington and Jackson Halls	912 50	
Clarence W. Fletcher, for serviees as fireman, etc., at City Hall.....	867 50	
John Firth, for serviees as janitor of ward room.....	6 00	
Thomas Hanafin, for serviees as jani- tor of ward rooms.....	16 00	
Andrew Maguire, for services as jani- tor of ward room.....	13 00	
Aaron Seadding, for serviees as jani- tor of ward room.....	12 00	
	<hr/>	7,101 73

MEMORIAL DAY.

To Grand Army of the Republie, per resolution of the City Council....	\$300 00	
	<hr/>	300 00

Paid for CELEBRATION OF THE
ONE HUNDRED AND SIXTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To Appropriation for Roads and Bridges, for labor.....	\$19 00	
Appropriation for Police, for services of officers.....	27 75	
Appropriation for Commons, for loam and labor.....	5 00	
Appropriation for Publie Buildings for lumber, labor, etc.....	216 64	
American Brass Band, for serviees..	140 00	
Lowell French Band, for services...	168 00	
Lowell Cornet Band, for serviees...	161 00	
Lowell Mechanie Phalanx, for firing salute.....	150 00	
Hyde & Co., for display of fireworks	600 00	
James K. Allen, for balloon aseension	350 00	
H. E. Reed and G. H. Taylor, for entertainments for ehildren.....	175 00	
	<hr/>	
<i>Amounts carried forward.....</i>	\$2,012 39	\$8,625 73

<i>Amounts brought forward.....</i>	2,012 39	\$8,625 73
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Paid for CELEBRATION OF THE
ONE HUNDRED AND SIXTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To Albert Crowell, for prizes for glass ball shooting.....	150 00
Posts 42 and 120, Grand Army of the Republic, for donation.....	100 00
Bleachery Cadets, Co. Q, for prize awarded in Antique Parade.....	75 00
Putnam Guards, for prize awarded in Antique Parade.....	50 00
Lowell Mechanic Phalanx, for prize awarded in Antique Parade.....	25 00
James Bayles, treasurer, for prize awarded in Antique Parade.....	25 00
P. J. Smith, for prize awarded in Antique Parade.....	15 00
John A. Smith, for prize awarded in Antique Parade.....	10 00
George Lee, for prize at regatta....	70 00
Patrick McInerney, for prize at re- gatta	50 00
Lowell Boat Club, for prize at re- gatta	50 00
James Conley, for prize at regatta..	10 00
D. D. Driscoll, for prize at regatta and labor.....	53 00
French & Puffer, for articles for prizes	38 00
M. G. Hallett, for watches for prizes	21 00
Harry Raynes, for articles for prizes	40 00
Thomas Garvey, for prize at regatta	15 00
Henry J. McDonald, for prize at re- gatta	15 00
Michael McCarty, for prize at re- gatta	15 00
J. F. Puffer, Jr., for prize at regatta awarded to P. H. Conley.....	40 00
John Quinn, for prize at regatta....	25 00
W. F. Stevens, for prize at regatta..	25 00
James Sullivan, for prize at regatta..	25 00
John Tweed, for prizes at regatta...	40 00
John Barlow, for prize awarded on account of athletic sports.....	5 00

<i>Amounts carried forward.....</i>	\$2,999 39	\$8,625 73
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<i>Amounts brought forward</i>	\$2,999 39	\$8,625 73
Paid for CELEBRATION OF THE ONE HUNDRED AND SIXTH ANNIVERSARY OF AMERI- CAN INDEPENDENCE:		
To Frank Fitzgerald, for prize awarded on account of athletic sports	7 00	
Philip Connors, for prizes awarded on account of athletic sports.....	30 00	
James Fitzgerald, for prize awarded on account of athletic sports.....	12 00	
Daniel Hurley, for prize awarded on account of athletic sports.....	2 00	
Hugh Keiren, for prize awarded on account of athletic sports.....	10 00	
William Mayo, for prize awarded on account of athletic sports.....	3 00	
William Morrill, for prize awarded on account of athletic sports.....	10 00	
Hugh Maguire, for prize awarded on account of athletic sports.....	12 00	
James Morrill, for prizes awarded on account of athletic sports.....	17 00	
Patrick Noonan, for prize awarded on account of athletic sports	2 00	
William Pratt, for prizes awarded on account of athletic sports.....	11 00	
Robert Stowell, for prize awarded on account of athletic sports.....	3 00	
Vesper Boat Club, for admission tickets to grand stand at regatta..	37 50	
Frank E. Shaw, for entertainment of bands, committees, etc.....	155 75	
C. W. Cheney, for claret and lager..	8 50	
Stiles & Co., for sugar and cheese ..	6 90	
Albert Wheeler & Co., for claret, lemons, cigars, matches, etc	27 45	
S. M. Patterson, for decorating City Hall.....	15 00	
H. C. McOsker, for potatoes.....	1 40	
M. Meaney, for sacks and use of tent	8 00	
E. B. Peirce, for use of steamers and barge	85 00	
Roberts Bros., for use of steamer...	10 00	
C. F. Butters, for carriage hire.....	2 00	
<i>Amounts carried forward</i>	\$3,475 89	\$8,625 73

Amounts brought forward \$3,475 89 \$8,625 73

Paid for CELEBRATION OF THE
ONE HUNDRED AND SIXTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE :

To E. H. Morse, for carriage hire	5 00	
Alphonso Merrill, for transporting bands	20 00	
A. W. Mathews, for ribbon and labor	25 38	
Badger & Holmes, for batons and staff	10 50	
H. B. & H. M. Bacon, for badges and rosettes	20 25	
A. L. Kittredge, for cloth, lettering, banners, etc	74 55	
A. K. Kittredge, for ringing bell . . .	3 00	
William McArthur, for ringing bell . .	6 00	
C. M. Stimpson, for ringing bell . . .	3 00	
James Walsh, for ringing bell	3 00	
W. R. Kennedy, for lighting band stands	4 00	
Citizen Newspaper Co., for printing and advertising	99 60	
Campbell & Hanscom, for printing and advertising	38 00	
Harrington Bros., for printing and advertising	49 56	
Huse, Goodwin & Co., for printing and advertising	16 65	
Marden & Rowell, for printing and advertising	61 76	
Stone, Bacheller & Livingston, for printing and advertising	30 74	
Lowell Bill Posting Co., for posting .	5 00	
W. S. Simons, for posting and dis- tributing programmes	42 80	
James M. Manuel, for labor	5 00	
		3,999 68

Paid for BAND CONCERTS :

To Appropriation for School Houses, for labor	\$ 6 38	
Appropriation for Public Buildings, for labor	34 17	
Lowell Cornet Band, for services . . .	170 77	
Lowell French Band, for services . . .	170 77	
<i>Amounts carried forward</i>	\$382 09	\$12,625 41

<i>Amounts brought forward</i>	\$382 09	\$12,625 41
Paid for BAND CONCERTS :		
To William R. Kennedy, for lighting band stands.....	7 00	
C. S. Tallant, for lighting band stands.....	7 00	
Alphonso Merrill, for labor with team	1 00	
James F. Sullivan, for labor.....	3 00	
	<hr/>	400 09
Paid for DAMAGES, COSTS, ETC. :		
To Appropriation for Police, for services and expenses of officers in sundry cases.....	\$71 25	
Mary A. Tully, on execution.....	500 50	
Samuel Fletcher, on execution.....	556 68	
George E. O. French, per resolution of City Council.....	77 50	
A. Thompson, Co. G, per resolution of City Council.....	40 00	
Company G, M. V. M., per resolution of City Council.....	40 00	
Flora L. Forbes, on execution.....	225 25	
Henry G. Cushing, for service of writ in case of City vs. Carll.....	6 96	
Clerk of Court, Middlesex County, for copies of records, etc.....	50 90	
Walter Burnham, for expert testimony in case of Smith vs. City...	25 00	
J. C. Irish, for expert testimony, etc., in sundry cases.....	25 00	
H. J. Smith, for professional services in case of Mary Stevens....	5 00	
Sarah J. Barnes, for personal injuries	50 00	
Patrick Healy, for personal injuries.	55 00	
Mary Longmore, for personal injuries.....	150 00	
Peter McGovern, for personal injuries	60 00	
Benjamin Hoyle, for damage to property caused by grading Mount Hope street.....	157 00	
Henry Hoyle, for damages to property caused by grading Mount Hope street.....	113 00	
Elizabeth H. Lew, for damage caused to property by grading Mount Hope street.....	60 00	
	<hr/>	2,269 04
<i>Amount carried forward</i>		\$15,294 54

RESERVED FUND.

81

Amount brought forward..... \$15,294 54

Paid for FUEL :

To Appropriation for Roads and Bridges, for labor on coal.....	\$47 94	
Appropriation for Paupers, for fuel..	92 94	
William Kittredge, for coal.....	649 93	
William E. Livingston, for coal.....	177 50	
		968 31

Paid for SUNDRIES AT BURIAL
GROUNDS :

To Appropriation for Roads and Bridges, for services of City Engineer and labor	\$55 19	
Appropriation for Water Works, for service pipe, fittings and labor at Edson Cemetery.....	326 11	
Appropriation for Water Works, for use of water.....	43 70	
M. C. Pratt & Co., for chestnut stakes	25 83	
Frederick Taylor, for hardware and tools.....	21 68	
H. R. Baker, for hose and nozzles..	21 00	
A. Parsons, for blacksmithing.....	2 00	
E. S. Keller, for labor on faucets...	1 75	
Niehols & Fletcher, for grass seed..	55	
W. G. Eaton, Jr., for blank book..	50	
L. J. Cherrington, for superintending construction of ehapel and laying out grounds.....	102 50	
H. B. Barnes, for painting ehapel...	50 00	
V. L. Wilson, for labor performed and material furnished in construc- tion of ehapel.....	946 42	
S. D. Butterworth, for plastering ehapel	100 00	
L. F. Kittredge, for labor on stone- work at chapel.....	37 50	
George Suttle, for superintendence of Edson Cemetery in 1881, grading, labor, etc.....	519 25	
Elias Lyon, for labor, etc., at Edson Cemetery.....	417 40	
E. T. Swan, for labor, etc., at Edson Cemetery.....	412 06	
<i>Amounts carried forward</i>	\$3,083 44	\$16,262 85

Amounts brought forward \$3,083 44 \$16,262 85

Paid for SUNDRIES AT BURIAL
GROUNDS :

To E. Lyon and E. T. Swan, for labor cutting hay.....	14 06	
H. B. and H. M. Bacon, for police badge.....	1 50	
G. W. Norris, for carriage hire.....	5 00	
G. C. Bassett, for loam.....	13 00	
Elisha Davis, for sods.....	27 18	
P. D. and T. S. Edmands, for loam and sods.....	5 75	
James P. Higgins, for loam.....	5 00	
John Sullivan, for loam.....	4 50	
J. Driscoll, for labor.....	84 75	
Albert G. Swan, for loam, sods and labor with team.....	135 99	
James McFarlin, for sods and labor.	2 95	
	<hr/>	3,383 12

Paid for RIFLE RANGE :

To Appropriation for School-Houses, for use of team.....	\$3 75	
Appropriation for Public Buildings, for labor.....	104 09	
O. E. Averill, for blacksmithing....	7 25	
Pevey Bros., for cast-iron plates....	71 36	
Scannell & Wholey, for target signals and covers.....	18 90	
John Labarge, for mortar-wall, cement and labor.....	229 20	
M. C. Pratt & Co., for lumber and sash.....	22 32	
C. B. Coburn & Co., for plate glass.	14 00	
H. Hosford & Co., for bunting.....	1 00	
D. Moody Prescott, for expenses of Committee to Framingham.....	13 75	
	<hr/>	485 62

Paid for SUNDRIES :

To Appropriation for Schools, for mats, brooms, brushes, etc.....	\$29 45	
Appropriation for School-Houses, for lumber, paint, varnish and labor..	25 35	
Appropriation, for Roads and Bridges, for labor	77 79	
	<hr/>	
<i>Amounts carried forward</i>	\$132 59	\$20,131 59

<i>Amounts brought forward</i>	\$132 59	\$20,131 59
Paid for SUNDRIES :		
To Appropriation for Public Buildings, for labor.....	305 60	
Appropriation for Water Works, for use of water.....	843 00	
Badger & Holmes, for gun-racks, lumber and labor.....	12 54	
M. C. Pratt & Co., for lumber and labor.....	17 29	
John C. Bennett, for rubber mould- ing	66	
H. A. Fielding, for hardware.....	75	
H. B. Shattuck, for hardware.....	8 76	
Frederick Taylor, for hardware, etc.	47 03	
O. E. Averill, for iron	50	
H. R. Barker, for chimneys, globes, etc.....	4 80	
William Blake & Co., for bell, hang- ings, etc., for Faith Chapel.....	311 35	
Cole & Nichols, for castings.....	38 52	
Pevey Bros., for castings.....	80	
R. S. Clifford, for repairing clock....	1 25	
T. Costello & Co., for pipe and labor	1 10	
S. G. Mack & Co., for boxes, pails, etc.....	26 49	
H. Sutcliffe, for zinc and labor.....	3 00	
Wallingford & Callaghan, for galvan- ized discs.....	75	
C. Zimmer, for keys, repairing locks, etc.....	5 30	
Charles O. Beede, for coalline.....	7 38	
Buttrick & Co., for matches.....	50	
C. B. Coburn & Co., for oil, shellac, alcohol, paint, waste, brushes, brooms, feather dusters, rope, etc.	67 84	
Carleton & Hovey, for matches, soap, sponge, brooms, paper, fans, ther- mometers, etc.....	16 65	
French & Puffer, for cuspadores....	4 17	
Fiske & Spalding, for cords, hooks and labor.....	2 50	
Daniel Gage, for ice	21 00	
H. Hosford & Co., for cambric....	32	
J. Kendall & Co., for alcohol, shellac and asphaltum.....	5 18	
<i>Amounts carried forward</i>	<u>\$1,887 62</u>	<u>\$20,131 59</u>

<i>Amounts brought forward</i>	\$1,887 62	\$20,131 59
Paid for SUNDRIES :		
To A. L. Kittredge, for lettering boxes.	7 00	
S. Horn & Co., for soap.....	40 50	
C. F. Hatch & Co., for boxes and labor	4 00	
E. A. McQuade, for tubs and pails..	3 15	
Nichols & Fletcher, for tubs, brooms and matches.....	7 35	
J. F. Puffer & Son, for feather dusters and chairs.....	3 25	
Stiles & Co., for brooms, tubs, soap and matches.....	5 18	
C. F. Shourds & Co., for feather dusters	10 80	
C. P. Talbot & Co., for sal ammoniac	79	
Adams & Co., for carpeting, binding and labor.....	109 08	
Benner Bros., for oil-cloth, table and labor	13 55	
J. P. Folsom & Co., for bunting and towels	4 38	
New England Bunting Co., for bunting.....	4 50	
A. W. Mathews, for ribbon, pins and labor	9 89	
Offut & Whitaker, for oil-cloth, zinc, stove, etc.....	12 95	
Sherman & Manning, for mirrors...	1 05	
J. E. Buerk, for dials and post.....	3 60	
Blodgett Bros., for electric lighting apparatus	6 71	
Belknap & Co., for stamp.....	15 00	
Lowell District Telephone Co., for telephone service.....	20 67	
Eastern Telephone Co., for telephone service	32 25	
Telephone Co.'s, for telephone service.....	15 00	
Boston, Lowell and Concord Railroads, for ground rent of Huntington and Jackson Halls.....	475 00	
Proprietors of Locks and Canals on Merrimack River, for rent of land in rear of Market House Building.	112 50	
E. Burgess, for pencils.....	1 00	
<i>Amounts carried forward</i>	\$2,806 77	\$20,131 59

Amounts brought forward..... \$2,806 77 \$20,131 59

Paid for SUNDRIES :

To F. P. Coggeshall, for blank books, stationery, etc.....	103 65
H. C. Church & Son, for blank books, stationery, etc.....	46 21
Bachelor, Dumas & Co., for blank books, paper, binding, etc.....	391 12
Coughlin & Co., for blank books, stationery, etc.....	28 24
J. Merrill & Son, for stationery, etc.	131 08
Citizen Newspaper Co., for two copies of Daily Citizen.....	7 50
Campbell & Hanscom, for two copies of Morning Times and printing...	13 75
C. L. Knapp & Son, for two copies of Daily Citizen and printing.....	12 50
Huse, Goodwin & Co., for printing..	10 25
Marden & Rowell, for two copies of Daily Courier, postal cards and printing	13 50
Morning Mail Co., for two copies of Morning Mail.....	10 00
New York Mirror, for advertising...	9 00
George Runels, for Boston Directory	5 00
N. C. Sanborn, for plans of seats in Huntington Hall.....	15 00

Sundry persons for amounts received
over and above the taxes, costs
and interest on estates sold for
non-payment of taxes, as follows :

Nicholas Campbell, on his estate....	34 52
Patrick Lynch, on estate of John H. McDonough	31 47
Ann McNamara, on her estate.....	44 95
Mary E. Norris, on estate of Heirs of F. G. Norris.....	42 45
James Payne, on estate of C. W. Saunders & Co.....	290 00
Samuel H. Randall, on his estate...	43 52
Stephen Castles, for amount refunded on taxes over-paid.....	98 89
Samuel Hosmer, for amount paid at tax sale in 1881 on estate pur- chased by him.....	12 67

Amounts carried forward..... \$4,202 04 \$20,131 59

<i>Amounts brought forward</i>	\$4,202 04	\$20,131 59
Paid for SUNDRIES :		
To C. T. Chamberlin, for funeral expense, interment, etc., of S. A. McPhetres.....	115 00	
E. L. Cardell, for services of choir and organist at funeral of S. A. McPhetres	15 00	
George L. Huntoon, for carriages at funeral of S. A. McPhetres.....	108 00	
Patten & Co., for flowers.....	20 00	
H. Hosford & Co., for crape, elastic, and labor.....	31 67	
S. M. Patterson, for draping at City Hall.....	20 00	
D. H. Goodhue, for expenses incurred in care of S. A. McPhetres	27 67	
H. A. Averill, for board of sundry persons in attendance on S. A. McPhetres.....	46 00	
C. W. Tolles, for medical attendance on S. A. McPhetres.....	17 00	
Osmon B. Way, for medical attendance on S. A. McPhetres.....	8 00	
David Chase, for cash paid for stamps, pens, rubber bands, rent of P. O. box, etc.....	19 00	
George E. Evans, for cash paid for repairing instruments, travelling expenses, etc	18 40	
J. W. Cumiskey, for cash paid for travelling expenses, postage stamps, etc.....	36 40	
John Ewing, for cash paid for sawdust, matches, cloth, postage stamps, etc.....	12 64	
S. J. Kirby, for cash paid for postage, expressing, travelling expenses, etc.....	8 15	
John H. McAlvin, for cash paid for rent of P. O. box, stamps, travelling expenses, recording, etc.....	139 70	
S. A. McPhetres, for cash paid for books, postage stamps, expressing, etc.....	56 58	
John H. Nichols, for cash paid for stamps, labor, etc.....	4 00	
<i>Amounts carried forward</i>	\$4,905 25	\$20,131 59

Amounts brought forward..... \$4,905 25 \$20,131 59

Paid for SUNDRIES :

To Levi B. Stevens, for travelling expenses, etc.....	3 60	
. W. Thompson, for travelling expenses, etc.....	6 55	
Nichols & Hutchins, for refreshments, tables; etc.....	47 05	
Waverly House, for refreshments...	22 00	
W. P. Atwood, for analysis of milk.	37 50	
Hutchins & Co., for watering street.	13 00	
George Hedrick, for taking care of clock on High street church.....	50 00	
Mary McFadden, for repairing flags.	7 20	
John F. Cosgrove, for cash paid for labor, chairs and tables.....	99 30	
Mary Sullivan, for labor at City Hall	11 52	
Kate Sullivan, for labor at City Hall	213 17	
Charles H. Dodge, for cleaning windows at City Hall.....	2 50	
James Gilbride, for cleaning windows at City Hall	17 25	
William W. Hazard, for cleaning windows at City Hall	14 50	
Thomas Farrell, for cleaning Ward room.....	1 50	
J. F. Convery, for labor at Huntington Hall	48 00	
J. H. Cassidy, for labor at Huntington Hall.....	87 00	
John Brennan, for labor at Huntington Hall.....	12 00	
John F. Breen, for labor at Huntington Hall.....	14 45	
Charles Foley, for labor at Huntington Hall.....	32 25	
Harry E. Reed, for labor at Huntington Hall.....	8 25	
Charles W. Goodwin, for labor at Huntington Hall.....	36 75	
Mary Daven, for labor at Huntington Hall.....	30 70	
Jane Duffey, for labor at Huntington Hall	9 70	
Mary Griffin, for labor at Huntington Hall.....	4 90	
<i>Amounts carried forward</i>	<u>\$5,735 89</u>	<u>\$20,131 59</u>

Amounts brought forward \$5,735 89 \$20,131 59

Paid for SUNDRIES :

To Mary Kellary, for labor at Hunting-		
ton Hall.....	19 90	
Bridget Norton, for labor at Hunting-		
ton Hall.....	1 20	
M. McManus, for labor at Hunting-		
ton Hall.....	1 50	
Kate McCaffrey, for labor at Hunt-		
ington Hall.....	8 70	
Sarah J. Smith, for labor at Hunting-		
ton Hall.....	8 00	
Mary Stanton, for labor at Hunting-		
ton Hall.....	1 50	
Mary J. Sherlock, for labor at Hunt-		
ington Hall.....	1 20	
G. L. Huntoon, for carriage hire....	5 00	
E. H. Morse, for carriage hire.....	85 35	
G. W. Norris, for carriage hire.....	6 00	
H. C. Pike, for carriage hire.....	5 00	
D. P. Knowlton, for labor with team	50	
T. G. Little, for labor with team....	1 50	
Daniel Mooney, for labor with team.	1 00	
U. S. & C. Express, for transporta-		
tion	6 35	
	<hr/>	5.888 59
Whole expenditure for the year.....		<hr/> \$26,020 18

TRANSFERS.

To Appropriation for Central Bridge...	\$1,300 00	
Appropriation for Schools.....	12,000 00	
	<hr/>	13,300 00
		<hr/> \$39,320 18
Balance undrawn January 1, 1883..		1,834 45
		<hr/> \$41,154 63
		<hr/>

PAUPERS.

Balance undrawn January 1, 1882.....	\$4,871 49	
Appropriated and assessed in 1882.....	40,000 00	
	<hr/>	\$44,871 49

RECEIPTS.

Received into the Treasury on account
of PAUPERS :

From Appropriation for School, for fuel, etc.....	\$1,359 76	
Appropriation for Roads and Bridges, for hay, etc.....	88 65	
Appropriation for Police, for sun- dries	50	
Appropriation for Fire Department, for sundries.....	43 00	
Appropriation for Sewers and Drains, for sundries.....	78 50	
Appropriation for Intercepting Sewers, for sundries.....	15 00	
Appropriation for Lighting, for sundries.....	37 30	
Appropriation for Water Works, for sundries.....	1 90	
Appropriation for Aiken street, for sundries	7 00	
Reserved Fund, for sundries.....	92 94	
Commonwealth, on account of State Paupers.....	354 62	
Commonwealth, for temporary sup- port of State Paupers.....	124 50	
Commonwealth, for burial of State Paupers	395 00	
	<hr/>	
<i>Amounts carried forward.....</i>	\$2,598 67	<hr/> \$44,871 49

<i>Amounts brought forward</i>	\$2,598 67	\$44,871 49
Received into the Treasury on account of PAUPERS :		
From City of Boston, for aid rendered Nellie Foley, Elizabeth Shaw, William Harrington, Michael McCarty, and burial of George Butterworth	114 14	
City of Cambridge, for aid rendered Mary Collins, Mrs. John Mon- ohan, Mrs. E. B. McKenna, and John P. Davidson.....	74 50	
City of Chelsea, for board of boys at Reform School.....	262 60	
City of Fall River, for aid rendered Elizabeth Kelly, Mrs. Ratcliffe, and Daniel Leeson.....	13 70	
City of Fitchburg, for aid rendered Catharine Lawless, Michael Cooper, John McNally, Richard O'Donnell, Daniel Rock, John Shea and John Weleh.....	246 11	
City of Gloucester, for aid render- ed Mrs. J. Arundel.....	34 00	
City of Holyoke, for aid rendered Margaret Burns.....	11 00	
City of Lawrence, for aid rendered Bridget Costello, Emma F. Dex- ter, Mrs. Joseph Daly, Mrs. Daniel Ashworth, Mary Foss, Mary Kelly, John Bean, Thomas Cummings and Daniel Donahoe.	227 50	
City of Malden, for aid rendered Charles Simpson.....	5 24	
City of Newton, for aid rendered Mrs. James Ashton.....	218 00	
City of Salem, for aid rendered P. Cronan and M. Curran.....	19 00	
City of Somerville, for board of boys at Reform School.....	523 66	
City of Taunton, for aid rendered J. McCarty and M. O'Connell..	25 50	
Town of Arlington, for board of boys at Reform School.....	36 90	
Town of Amesbury, for aid ren- dered Matthias Noon.....	46 00	
<i>Amounts carried forward</i>	<hr/> \$4,456 52	<hr/> \$44,871 49

<i>Amounts brought forward.....</i>	\$4,456 52	\$44,871 49
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Received into the Treasury on account
of PAUPERS :

From Town of Andover, for aid rendered Mrs. Henry P. Sherman, Peter Burke and W. J. Damon and child.....	21 50	
Town of Billerica, for aid rendered Mary Dignan	20 00	
Town of Blackstone, for aid rendered Mrs. M. Canfield.....	105 81	
Town of Bridgewater of aid rendered Catharine Quinn.....	24 50	
Town of Canton, for aid rendered Ellen Daniels.....	3 00	
Town of Chelmsford, for aid rendered Elizabeth Donahoe and D. Laduke	89 50	
Town of Danvers, for aid rendered Mrs. William Henderson and Ann M. Welch.....	400 58	
Town of Dedham, for aid rendered Nancy Morse.....	43 75	
Town of Dracut, for aid rendered Mrs. E. Fennell and J. Kittredge	132 01	
Town of Groton, for overdraft...	39 00	
Town of Hardwick, for aid rendered William N. Smith.....	16 00	
Town of Holden, for aid rendered Mrs. G. Lavalley.....	3 00	
Town of Lynnfield, for aid rendered George A. Abbott.....	24 00	
Town of Marlboro, for aid rendered L. Sewell, and board of boys at Reform School.....	114 43	
Town of Manchester, for aid rendered Ann Quinn.....	35 50	
Town of Milbury, for aid rendered Orrin Bonzy.....	3 00	
Town of Milford, for aid rendered Margaret Quinn.....	15 00	
Town of Melrose, for aid rendered Lawrence Reardon.....	8 65	
Town of Natick, for aid rendered Ella Witherell.....	48 00	
<i>Amounts carried forward.....</i>	<u>\$5,603 75</u>	<u>\$44,871 49</u>

<i>Amounts brought forward</i>	\$5,603 75	\$44,871 49
Received into the Treasury on account of PAUPERS :		
From Town of Oxford, for aid rendered Henry Dodge.....	5 00	
Town of Pepperell, for aid rendered H. D. Watson.....	12 70	
Town of Rockland, for aid rendered Clara S. Felch.....	4 50	
Town of Stoneham, for aid rendered Francis McRann.....	50 00	
Town of Stoughton, for overdraft.	16 00	
Town of Tewksbury, for aid rendered Mrs. A. McDonnell.....	50	
Town of Topsfield, for overdraft..	123 95	
Town of Tyngsboro, for aid rendered Sarah Farwell and Esther Holmes.....	54 49	
Town of Watertown, for aid rendered John P. Crafts and board of boys at Reform School.....	42 14	
Town of Waltham, for aid rendered Lewis Dinsmore, James Shea and Peter Smith.....	312 09	
Town of Walpole, for aid rendered Mrs. George Clark.....	5 00	
Town of Wellesley, for aid rendered Martha Roy.....	60 00	
Town of Weymouth, for aid rendered Hannah Handley and Catharine Slattery.....	51 75	
Town of Winchester, for aid rendered John Hennesey.....	37 55	
Town of Woburn, for aid rendered George McDermott.....	101 71	
Frank Battles, for board of Augustus S. Battles at Danvers Insane Asylum.....	171 10	
Wilder Bennett, for board for Caroline Bennett at Worcester Insane Asylum.....	9 32	
John S. Bicknell, for board of Abbie C. Bicknell at Almshouse	11 03	
Alden Y. Caswell, for board of Mary A. Caswell at Worcester Insane Asylum.....	212 17	
<i>Amounts carried forward</i>	<hr/> \$6,884 75	<hr/> \$44,871 49

Amounts brought forward..... \$6,884 75 \$44,871 49

Received into the Treasury on account
of PAUPERS :

From Estate of Ann Curley, for board of Ann Curley at Almshouse.....	16 00
Mary Curley, for board of Ann Curley at Almshouse.....	52 00
F. P. Clay, for board of Stephen Clay at Almshouse.....	35 42
Danvers Lunatic Hospital, for error in bill for support of Bridget Haggerty.....	138 31
Clarence W. Fletcher, for board of Warren Fletcher at Worcester Insane Asylum.....	128 98
George W. Gale, for board of Charles Head.....	8 25
Frank S. Hart, for board of Mar- garet Myers at Almshouse.....	12 63
James Hopkins, for board of George W. Hopkins at Danvers Insane Asylum.....	180 22
Mary Kibble, for board at Alms- house.....	33 37
Charles H. Knowles, for board of Charles V. Knowles at North- ampton Insane Asylum.....	129 86
Clara Kennison, for board of Mar- tha Lord at Almshouse.....	6 00
Martha Lord, for board at Alms- house	1 00
Thomas H. Martin, for board of child at Almshouse.....	10 00
F. H. Penniman, for board of Hannah Penniman at Almshouse	129 65
Lorenzo Phelps, for board of P. O. Neil at Almshouse.....	24 00
Albert Pindar, for board of Daniel Lake at Almshouse.....	78 00
Mrs. H. L. Rollins, for board of E. E. Aldrich at Almshouse....	6 00
J. W. Spalding, for board of Calista J. Spalding at Danvers Insane Asylum.....	92 20
Valentine L. Wilson, for board of Christina Wilson at Worcester Insane Asylum.....	169 98

Amounts carried forward..... \$8,136,62 \$44,871 49

Amounts brought forward..... \$8,136 62 \$44,871 49

Received into the Treasury on account
of PAUPERS:

From L. F. Jewell, for aid rendered Ann Quinn, Joanna Murphy, James Gill and John O'Brien.....	16 75
P. F. Mellen, for account of support of Bridget Farrell.....	200 00
C. N. Rice, for board of Mrs. Rice Lorenzo Phelps, for sales from farm, etc.....	6 00
Albert Pindar, for sales from farm	150 01
J. A. & J. T. Dunn, for seating chairs.....	2,244 51
Margaret Gorman, for overdraft..	150 00
Margaret O'Brien, for overdraft...	4 00
Patrick Quinn, for overdraft.....	5 00
S. M. Patterson, for rent at wood-yard	75
L. F. Jewell, for sale of wood and coal	12 00
John C. Woodward, for fuel.....	778 53
Patrick Sheehan, for supplies....	220 41
John H. Nichols for lard and coal	2 00
John Bowers, Jr., for coal.....	12 05
Henry Boynton, for coal.....	14 10
J. F. Convery, for coal.....	13 00
Patrick Conlan, for wood.....	12 60
H. W. Currier, for coal.....	2 00
Peter Donahoe, for coal.....	6 30
James Dooly, for wood.....	6 30
Patrick Emerson, for coal.....	2 50
Thomas Fitzpatrick, for fuel.....	6 30
Charles Head, for wood.....	16 25
L. G. Howe, for coal.....	2 50
Daniel Lahey, for coal.....	20 09
E. J. Little, for coal.....	6 30
John J. McEllicott, for wood.....	11 57
A. F. Nudd, for wood.....	7 00
Michael O'Hare, for wood.....	4 50
Patrick Ryan, for fuel.....	2 00
Thomas J. Sawyer, for fuel.....	4 75
C. C. Thompson, for coal.....	45 10
Lawrence Trainor, for fuel.....	32 50
G. B. Whitney, for coal.....	4 25
	6 30

Amounts carried forward..... \$12,164 84 \$44,871 49

PAUPERS.

95

<i>Amounts brought forward</i>	\$12,164 84	\$44,871 49
Received into the Treasury on account of PAUPERS:		
From George A. Wood, for fuel.....	3 00	
Terrence Ward, for wood.....	2 00	
	<hr/>	12,169 84
		<hr/>
		\$57,041 33
		<hr/>

EXPENDITURES.

Paid SECRETARY OF THE BOARD
OF OVERSEERS OF THE POOR:

To Leonard T. Jewell, salary	\$1,000 00	
	<hr/>	\$1,000 00

Paid SUPERINTENDENT AND
CHAPLAIN OF INSTITUTIONS
AT CITY FARM AND TEACH-
ER OF REFORM SCHOOL:

To Lorenzo Phelps, Superintendent, salary	\$375 00	
Albert Pindar, Superintendent, sal- ary.....	1,500 00	
William A. Lang, Chaplain and Teacher, salary.....	1,500 00	
	<hr/>	3,375 00

Paid for LABOR AT ALMSHOUSE:

To Jesse S. Bean.....	300 00	
John P. Eaton.....	70 00	
O. L. Gilman.....	40 00	
R. Gilman.....	25 50	
H. M. Gilman.....	45 00	
Henry J. Keyes.....	350 00	
H. S. Phillips.....	420 00	
Nicholas Pierce.....	420 00	
R. B. Toby.....	231 45	
W. J. Welch.....	77 00	
H. Andrews.....	95 85	
	<hr/>	
<i>Amounts carried forward</i>	\$2,074 80	\$4,375 00

<i>Amounts brought forward</i>	\$2,074 80	\$4,375 00
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Paid for LABOR AT ALMSHOUSE:

To J. Bailey.....	175 86	
A. Bean.....	13 00	
Eva Farley.....	84 49	
Maria M. Mooney.	147 51	
M. Mowett.....	30 00	
Hannah White.....	26 00	
E. Tapley.....	34 66	
A. J. W. Sweet.....	90 32	
	<hr/>	2,676 64

Paid for GROCERIES, PROVISIONS,
GRAIN, FUEL, ETC., USED AT
ALMSHOUSE:

To William Kittredge, for coal.....	\$832 43	
H. A. & S. A. Coburn, for wood...	27 50	
Coggin, Kidder & Co., for flour....	2,525 75	
Sands, Fernald & Sprague, for flour.....	312 50	
R. Shannon, for flour.....	181 25	
Mrs. S. A. Scripture, for crackers and baking.....	649 75	
George E. Scripture, for crackers...	3 50	
William E. Livingston, for flour, meal, oats and fine feed.....	1,858 74	
H. A. & S. A. Coburn, for oats....	9 00	
W. P. Foye, for oats.....	15 12	
S. N. Wood & Son, for meal, oats, fine feed, etc.....	453 43	
Edward N. Wood, for meal, corn, oats and fine feed.....	689 56	
Fowle, Hibbard & Co., for peas and beans.....	113 03	
G. M. Plummer, for beans.....	3 00	
G. N. & E. Nichols, for beans.....	180 64	
Simpson, McIntire & Co., for beans.	59 94	
Alfred Barney, for wicks.....	14	
Buttrick & Co., for groceries.....	123 51	
Belvidere Cash Store, for groceries..	144 48	
Donovan & Co., for rice.....	147 17	
Davis, Sacker & Perkins, for coffee.	66 00	
Ela & Puffer, for salt.....	1 10	
Hartwell & Co., for groceries....	104 18	
P. Keyes & Son, for coffee.....	7 40	
	<hr/>	
<i>Amounts carried forward</i>	\$8,509 12	\$7,051 64

Amounts brought forward..... \$8,509 12 \$7,051 64

Paid for GROCERIES, PROVISIONS,
GRAIN, FUEL, ETC., USED AT
ALMSHOUSE :

To Nichols & Fletcher, for groceries...	173 34
Charles H. Stone & Co., for peas, beans, etc.....	319 75
Wason, Peirce & Co., for groceries.	1,289 54
Stiles & Co., for groceries, etc.....	64 30
Howard W. Spurr & Co., for gro- ceries.....	463 59
John T. Seede, for coffee.....	3 96
William R. Emerson, agent, for cigars.....	6 00
William Calderwood, for snuff.....	3 68
S. C. Patrick, for snuff and pipes...	19 84
Robert Simpson, for tobacco, snuff, etc.....	108 35
W. H. I. Hayes, for cigars.....	15 00
E. W. Hall, for fruit, etc...	22 50
F. W. Smith, for fruit, etc.....	24 95
French Bros., for fish.....	37 94
Potter & Wrightington, for fish.....	423 75
Belvidere Market, for beef and pro- visions.....	212 20
Ira M. Chase, for beef.....	502 09
William Clary, for beef, provisions, etc.....	101 86
Michael Corbett, for beef, fruit, etc.	85 58
H. Farrell, for beef, poultry and pro- visions.....	106 43
James Dollard & Son, for beef.....	247 92
M. J. Fletcher & Co., for pork.....	223 53
O. J. Gilbert & Co., for beef.....	107 96
Gray Bros., for provisions.....	44 35
D. S. Gray, for provisions.....	4 90
Jewett & Swift, for pork.....	841 50
Kelley Bros., for beef, provisions, etc.	649 70
Richardson Bros., for beef and pro- visions.....	113 37
Julian A. Richardson, for beef and provisions.....	167 28
John A. G. Richardson, for beef and provisions.....	107 21
A. F. Wright, for beet.....	320 07

Amounts carried forward..... \$15,321 56 \$7,051 64

Amounts brought forward..... \$15,321 56 \$7,051 64

Paid for GROCERIES, PROVISIONS,
GRAIN, FUEL, ETC., USED AT
ALMSHOUSE:

To Charles W. Wilder, for salt and curing hams.....	11 73	
Boston & Lowell and Concord Railroads, for transportation.....	48 11	
Boston & Maine Railroad, for transportation.....	20 70	
Lovejoy & Co.'s Express, for transportation	50	
	<hr/>	15,402 60

Paid for DRY GOODS, BOOTS,
SHOES, ETC., AT ALMS-
HOUSE:

To H. H. Barnes, for shawls.....	\$3 00	
Cook & Taylor, for blankets.....	35 75	
J. P. Folsom & Co., for dry goods..	91 00	
H. Hosford & Co., for dry goods...	198 56	
William P. Brazer & Co., for caps and mittens.....	7 95	
Putnam & Son, for hats and caps...	18 33	
Allen Bailey, for shoes.....	31 11	
C. O. Richardson, for shoes.....	146 23	
Daniel Swan, for shoes.....	87 08	
Thompson & O'Brien, for shoes....	21 00	
H. Wright & Co., for shoes.....	36 80	
Willard A. Brown, for leather and findings	132 66	
D. L. Dimmock, for leather and findings.....	68 10	
	<hr/>	877 57

Paid for DRUGS AND MEDICINES
AT ALMSHOUSE:

To C. F. Blanchard for drugs and medicines.....	\$17 22	
Carleton & Hovey, for drugs and medicines.....	44 44	
B. B. Fullerton, agent for insect powder.....	6 20	
J. R. Hayes, for medicines.....	5 55	
C. R. Kimball, for medicine.....	9 04	
Herbert E. Webster, for disinfectant.....	3 50	
	<hr/>	85 95

Amount carried forward..... \$23,417 76

Amount brought forward..... \$23,417 76

Paid for SUNDRIES AT ALMS-
HOUSE:

To Appropriations for Roads and Bridges, for service of Engineer, blacksmithing, etc.....	\$140 10
Appropriations for Fire Depart- ment, for manure and waste.....	251 41
Appropriations for Public Buildings, for labor.....	28 75
Appropriations for Water Works, for use of water.....	126 67
A. L. Brooks & Co., for lumber....	16 43
Howes & Burnham, for lumber....	57 55
Nathaniel Trull, for plank.....	4 00
H. A. Fielding, for hardware, tools, seeds, etc.....	157 37
Frederick Taylor, for hardware, tools, etc.....	69 16
Archibald Wheel Co., for wheels and axles	46 35
O. E. Averill, for blacksmithing....	5 75
H. R. Barker, for pipe, couplings, hose, labor, etc.....	10 48
Boutwell Bros., for iron.....	17 85
G. H. Convers, for staples, etc.....	1 44
C. T. Haskell, for filing saws.....	3 95
M. V. B. Libby, for shoeing horses	53 25
Martin & Strong, for tinware, etc...	27 26
John S. Shedd, for plow points and handles.....	3 55
S. G. Mack & Co., for grates, sprink- lers, etc.....	30 75
N. J. Wier & Co., for repairing stoves	4 30
H. H. Wilder & Co., for buckets, corn-poppers, etc.....	25 95
W. H. Ward, for blacksmithing....	68 11
T. Costello & Co., for repairing stoves, etc.....	82 40
T. Gillogan, for repairing roof.....	28 30
Michael Crowley, for labor.....	20 00
James A. Manuel, for services.....	5 00
C. B. Coburn & Co., for oil, spirits turpentine, alcohol, lead, whiting, glue, twine, rope, brushes, glass, etc.....	113 99

Amounts carried forward..... \$1,400 12 \$23,417 76

<i>Amounts brought forward</i>	\$1,400 12	\$23,417 76
Paid for SUNDRIES AT ALMS- HOUSE:		
To H. C. Church & Son, for twine and tags	2 20	
O. A. Charters, for liniment and con- dition powders.....	21 00	
Clark & Noyes, for pails, baskets, brooms, brushes, tubs, sponge, corks, etc.....	40 87	
M. C. Duffey, for barrels.....	8 75	
French & Puffer, for bags, brooms, clocks, crockery, etc.....	109 08	
Samuel Horn & Co., for salt lye, soap and scraps.....	33 59	
Lowell Rubber Co., for rubber sheet- ing	4 50	
William E. Livingston, for lime and cement.....	9 50	
A. P. Noyes for oil and soap.....	10 70	
H. H. Noyes, for butter-mould and carpet-sweeper	3 50	
Pindar & Mackie, for combs, wicks, spoons, brooms, crockery, etc....	18 92	
C. P. Talbot & Co., for copperas, chloride of lime, sulphur, camphor, ammonia, etc.....	24 82	
Richardson Ice Co., for ice.....	44 25	
Adams & Co., for hair.....	1 50	
Sherman & Manning, for carpeting..	6 50	
R. S. Clifford, for spectacles.....	3 75	
W. H. Worcester & Co., for specta- cles, repairing clock, etc.....	3 75	
F. P. Coggeshall, for blank book and pens	1 75	
J. Merrill & Son, for blank books, stationery, etc.....	17 48	
R. L. Nutting, for rubber stamps and ink.....	2 00	
Campbell & Hanscom, for printing..	31 00	
Marden & Rowell, for Daily Courier for one year.....	6 00	
Lowell District Telephone Co., for telephone service.....	7 65	
Eastern Telephone Co., for telephone service.....	15 00	
<i>Amounts carried forward</i>	<hr/> \$1,828 18	<hr/> \$23,417 76

Amounts brought forward \$1,828 18 \$23,417 76

Paid for SUNDRIES AT ALMS-
HOUSE:

To Telephone Companies, for telephone service.....	7 75	
Lowell Gas Light Co., for gas.....	250 62	
G. F. Allen, for leather, halters, curry combs, brushes, etc.....	20 28	
J. A. Brabrook, for repairing harnesses.....	12 78	
G. L. Huntoon, for carriage hire....	37 00	
E. H. Morse, for carriage hire.....	5 00	
E. B. Mayberry, for refreshments, use of crockery, services, etc.....	303 96	
Albert Pindar, for travelling expenses and removal of sundry persons.....	87 09	
George Runels, for travelling expenses.....	4 16	
R. Pickering & Co., for one pair of horses.....	600 00	
Robert Wood, for attendance and treatment of horses.....	7 50	
O. Blodgett, for killing hogs.....	23 00	
Israel Putnam, for making cider....	18 99	
Town of Chelmsford, for taxes of 1882.....	26 00	
	<hr/>	3,232 31

Paid on account of FREE DISPENSARY:

To Charles Naylor, for services as clerk, etc.	\$125 50	
John Mixer, for services as clerk, etc.....	155 35	
Carleton & Hovey, for services of clerk, etc.....	32 10	
Crowell & Harrison, for medicine, etc.....	95 34	
Carlton & Hovey, for medicine, etc.,	185 58	
A. W. Dows & Co., for medicine, etc.	74 43	
C. R. Kimball, for medicines, etc....	128 94	
A. W. Derbyshire, & Co., for sugar and broom.....	24 13	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$821 37	\$26,650 07

<i>Amounts brought forward</i>	\$821 37	\$26,650 07
Paid on account of FREE DISPENSARY:		
To Stiles & Co., for sugar, sherry wine and whiskey.....	18 05	
Bachelor, Dumas & Co., for blank book.....	6 50	
Morning Mail Co., for printing.....	35 77	
Stone, Bachelor & Livingston, for printing.....	9 50	
E. M. Foster, for pendant and labor	3 90	
		895 09
Paid for SERVICES OF PHYSICIANS:		
To Nathan Allen, for professional services.....	\$14 00	
E. T. Aldrich, for services as ward physician.....	25 00	
G. J. Bradt, for services as ward physician, etc.....	54 00	
Solon Bartlett, for professional services.....	2 00	
Burnham & Perkins, for professional services.....	7 00	
F. W. Chadbourne, for services as ward physician, etc.....	56 17	
J. J. Colton, for services as ward physician.....	37 50	
Willis G. Eaton, for services as ward physician, etc.....	54 30	
Leonard Huntress for professional services.....	24 00	
J. C. Irish, for professional services	10 00	
W. B. Jackson, for services as ward physician, etc.....	39 50	
Henry P. Perkins, Jr., for services as ward physician.....	12 50	
Charles H. Ricker, for services as ward physician.....	58 31	
Savory & Fiske, for professional services.....	7 00	
E. W. Trueworthy for professional services.....	6 00	
C. A. Viles, for services as ward physician.....	54 16	
		461 48
<i>Amount carried forward</i>		\$28,006 64

Amount brought forward..... \$28,006 64

Paid for COFFINS, INTERMENTS,
ETC:

To Appropriations for Public Buildings, for labor.....	\$84 13
M. C. Pratt & Co., for lumber.....	36 86
Torsey Bros, for coffins.....	106 25
C. B. Coburn & Co., for alcohol, can, brushes, etc.....	11 30
J. Kendall & Co., for spirits turpen- tine, asphaltum and alcohol.....	3 10
J. W. Brooks, for services as under- taker.....	115 00
C. T. Chamberlin, for services as undertaker.....	52 00
Peter Davey, for services as under- taker.....	69 00
William L. Lockhart, for services as undertaker.....	14 00
Frank Martin & Son, for services as undertakers.....	98 00
J. McLaughlin, for services as un- dertaker.....	3 00
J. H. McDermott, for services as undertaker.....	92 00

684 64

Paid for FUEL, LABOR, ETC., OUT
OF ALMSHOUSE:

To Appropriation for Schools, for saw- horses.....	\$ 70
Appropriation for School Houses, for lumber and sash.....	5 30
Appropriation for Roads and Bridges, for labor on fuel.....	3,730 94
Appropriation for Public Buildings, for lumber and labor.....	132 90
Reserved Fund, for measuring wood	2 52
George Allen, for baskets and labor	4 00
Sager Ashworth & Co., for files....	2 25
Duckworth & Knowles, for files....	80
H. A. Fielding, for hardware.....	3 81
J. H. Haskell, for filing saws etc.,	31 55
H. B. Shattuck, for hardware.....	5 46
Frederick Taylor, for hardware and tools.....	12 05

Amounts carried forward..... \$3,932 28 \$28,691 28

Amounts brought forward..... \$3,932 28 \$28,691 28

Paid for FUEL, LABOR, ETC., OUT
OF ALMSHOUSE:

To Thomas J. Sayers, for cash paid for recutting files.....	1 17	
M. C. Pratt & Co., for lumber.....	54 95	
Whitney & Tibbetts, for lumber....	17 00	
J. W. Bennett & Co., for roofing...	157 48	
A. L. Kittredge, for paints, brushes, etc.....	8 20	
Charles Clapp, for use of horse.....	4 00	
Estate of Timothy Coburn, for wood	59 37	
Rufus B. Whitney, for wood.....	610 50	
William Kittredge, for coal.....	2,183 10	
Solomon Spalding, for drawing wood	231 75	
Samuel Newhall, for measuring wood	7 50	
F. P. Coggeshall, for blank books and pencils.....	3 05	
Sundry persons, as per pay-rolls, for labor	2,001 23	
William Donovan, for labor.....	324 00	
William Husband, for labor.....	20 00	
Michael Dean, for labor.....	60 00	
		9,675 58

Paid COMMONWEALTH, ETC.,
FOR SUPPORT OF SUNDRY
PERSONS:

To Charles J. Adams, for support of persons in Middlesex County House of Correction.....	\$664 62	
Essex House of Correction, for support of Daniel Shea, Frank Steuben and A. C. McIntire.....	20 44	
Commonwealth of Massachusetts, for support of Mary Crowley, Sarah McManus, Elizabeth Golden, Mary E. McManns, Bridget Fox, Mary McShea, Mary E. Burke, Mary Conway, Annie Cuff (in 1857), Thomas F. Farley, John Mahoney, Michael Lynch, William Goding, Allen McKinley, James Burns, William Ray, Francis Gillogly, Michael Howard, Edwin Carroll, John Glover, J. P. Hirshfield,		
<i>Amounts carried forward</i>	\$685 06	\$38,366 86

<i>Amounts brought forward</i>	\$685 06	\$38,366 86
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**Paid COMMONWEALTH, ETC.,
FOR SUPPORT OF SUNDRY
PERSONS:**

John H. Hogan, Edward McCleary,
Michael Sullivan, William E.
Curry, Frank Carleton, Frank M.
Lowe, Morris J. Connell, Martin
Connelly, Lawrence Hendrick, J.
H. Mitchell, Charles H. Morse,
M. Conway, F. J. Parsons, Daniel
Shea and James Burns.....

985 01

1,670 07

**Paid HOSPITALS FOR SUPPORT
OF SUNDRY PERSONS:**

To Asylum for Chronic Insane at Wor-
cester, for support of Louise Par-
ker and Enoch Lewis.....

\$369 89

Massachusetts General Hospital, for
board of Zillah White.....

9 00

Danvers Lunatic Hospital, for balance
due for maintenance of patients
from March 31, 1879, to March
31, 1880.....

214 79

Danvers Lunatic Hospital, for sup-
port of Calista J. Spalding,
Catherine Flynn, Hannah S. Swift,
Edith A. Lackie, Jane E. How-
ard, Caroline M. Prescott, Bridget
Haggerty, Catherine Roarke,
Augustus S. Battles, James Hen-
dricks, Michael W. Ring, William
J. Jenkins, John B. McHugh,
Thomas Black, John Bradley,
Richard Brennan, John Mahoney,
Michael Lynch, George Hopkins
and William Goding.....

2,264 83

Northampton Lunatic Hospital, for
support of Bridget Clune, Jane
Maguire, Nancy Peabody, Honora
Thomas and Charles V. Knowles.

882 59

Taunton Lunatic Hospital, for sup-
port of Richard Brennan.....

40 44

Amounts carried forward.....

\$3,781 54

\$40,036 93

Amounts brought forward \$3,781 54 \$40,036 93

**Paid HOSPITALS FOR SUPPORT
OF SUNDRY PERSONS :**

To Worcester Lunatic Hospital, for support of Ellen Golden, Roxanna Putnam, Mary A Caswell, Maria Coughlin, Christina Wilson, Mary Butler, Sarah McManus and Caroline A. Bennett..... 1,063 38

St. John's Hospital, for board, medicine and medical aid rendered Mary Short, Mary Sullivan, Catharine McGrath, Margaret Hoyland, Mary O'Neill, Rose Burns, Minnie O'Neill, Nellie Blanchard, Laura DeCoyne, Mary J. Sullivan, Addie Hobbs, Katie Cox, Mary Ashton, Margaret McQuade, Winifred Collins, Hannah Boyle, Mary A. Bratton, Esther Holmes, Catherine Woods, Mary Donohoe, Mary Hallas, Mary Caden, Catherine Ward, Elizabeth Vose, Virginia Page, Catherine McGrade, Catherine Coyne, Mary Gleason, Kate Dunning, Mary Rabage, Maggie McFarland, Cadeline Rogers, Mary Burke, Mary Sullivan, Fannie Train, Margaret Carr, Ann Cavanagh, Sarah Norie, Mary McFarland, Addie L. Williams, Dennis J. Hogan, James Lanergan, Patrick Hederman, James Ashton, Thomas Callahan, Henry H. Dodge, John Bean, Walter Crowley, Albert Bradford, Lawrence Riordan and Thomas Mansell..... 2,203 00

7,047 92

**Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS :**

To City of Boston, for aid rendered Jacintha Bowles, Joanna Gannon, Mary Keyes, Mary McNamara and sister, Mary E. Oakes, Joanna

Amount carried forward

\$47,084 85

Amount brought forward..... \$47,084 85

**Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS :**

Stevens, Mary Tuttle, Mary C. White, Anna M. Reynolds, Nellie Courtney, Katie Hill, Abbie J. Vanderslice, Mary J. Rogers and daughter, Charles H. Corey, Patrick Garity, Nathaniel Lew, Patrick Welch, Arthur J. Killen, David Read, Jerome F. Rice, Daniel Crowley, George R. Morse and burial of Ellen Garity.....	\$394 75
City of Cambridge, for aid rendered child of Estelle Sheridan, Mrs. M. A. C. Dudley, Ellen M. Dudley and John Casey.....	72 63
City of Chelsea, for aid rendered David Beauball.....	3 00
City of Fitchburg, for aid rendered G. W. Choate.....	88 58
City of Fall River, for aid rendered Catherine Robinson and child and Thomas Larkin	41 90
City of Lawrence, for aid rendered Delia Bagshaw, Mary McGuire, Peter Bradley, Thomas Mangan and John McDonald.....	28 40
City of Lynn, for aid rendered Mrs. Samuel C. Morey, Mrs. Lyman J. Morey and family and Edwin G. Howe and family.....	199 75
City of Newburyport, for aid rendered William Rich and family...	62 83
City of Salem, for aid rendered H. L. Caswell.....	48 00
City of Somerville, for aid rendered Mrs. Frances McElroy and Zella White.....	34 70
City of Worcester, for aid rendered daughter of John Shepard.....	12 65
Town of Ayer, for aid rendered Nancy Glines and Frank W. Shaw	67 55
Town of Beverly, for aid rendered A. W. Montcalm.....	44 00

<i>Amounts carried forward</i>	<u>\$1,098 74</u>	<u>\$47,084 85</u>
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Amounts brought forward..... \$1,098 74 \$47,084 85

Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS:

To Town of Chelmsford, for aid rendered Kate Campbell.....	19 50	
Town of Groton, for aid rendered children of ——— Jones.....	103 50	
Town of Hanson, for aid rendered Joseph E. Soper.....	40 25	
Town of Holden, for aid rendered Frank Spring and family.....	93 60	
Town of Methuen, for aid rendered William Harris and Michael A. Giblin	37 92	
Town of Needham, for aid rendered Annie S. Brown, Joseph Brown and Margaret Kelley.....	24 00	
Town of Natick, for aid rendered Arthur Russell.....	27 37	
Town of Peabody, for aid rendered Mrs. George Chase and family and family of Patrick Fox.....	158 67	
Town of Stoughton, for aid rendered Maggie O'Brien and burial of child.....	32 00	
Town of Topsfield, for aid rendered Joseph Stiles.....	426 57	
Town of Tewksbury, for aid rendered David Rogers, and services of undertaker in case of James Burns...	25 00	
Town of Weymouth, for aid rendered Nathan M. Reed.....	4 00	
	<hr/>	2,091 12

Paid for AID RENDERED SUNDRY
PERSONS OUT OF THE ALMS-
HOUSE:

To Boston, Lowell & Concord Railroads, for railroad tickets.....	\$63 90	
Boston & Maine Railroad, for railroad tickets.....	25 75	
Old Colony Railroad, for railroad tickets.....	3 00	
J. E. Short, for railroad tickets.....	27 20	
W. E. Kenney, for railroad tickets..	16 00	
	<hr/>	
<i>Amounts carried forward</i>	\$135 85	\$49,175 97

<i>Amounts brought forward</i>	\$135 85	\$49,175 97
Paid for AID RENDERED SUNDRY PERSONS OUT OF THE ALMS- HOUSE:		
To Mrs. James Ashton, for assistance in cash.....	60 00	
Joseph A. Allen, for fare of Michael Sullivan from Westborough.....	1 75	
Ira Bailey, for board of Maria Baker	10 00	
Mrs. J. A. Bowers, for board of child of Thomas Martin.....	25 29	
E. H. Brady, for moving furniture..	1 50	
Abbie Boyd, for board of Fannie Clifford.....	9 86	
Mrs. L. J. Burns, for board of Nancy Glines	21 44	
Hannah Campfield, for assistance in cash.....	4 00	
George Crafts, for rent of tenement for Mary Ward.....	8 00	
Mrs. Charles Chamberlain, for board of S. E. Moulton.....	45 85	
Mary J. Clark, for board of children of ——— Jones.....	156 00	
Mrs. Willard Dudley, for assistance in cash.....	60 00	
Delia Dyar, for board of Fannie Clifford	18 21	
Theodore Edson, for board of Eliza- beth Vose.....	6 00	
Mrs. Charles H. Frost, for board of abandoned child.....	2 00	
Maria Farrell, for board of children of Patrick Welch.....	156 47	
Louisa Frye, for board of Sarah E. Moulton	15 00	
Margaret Gorman, for assistance in cash.....	4 00	
Mrs. Willis Gillespie, for board of abandoned children.....	6 12	
Helen Garrison, for aid rendered Charlotte Myers.....	1 12	
W. D. Hill, for medical attendance on Joseph Stiles.....	4 00	
Mrs. William Henderson, for assist- ance in cash.....	66 00	
<i>Amounts carried forward</i>	<hr/> \$818 46	<hr/> \$49,175 97

<i>Amounts brought forward</i>	\$818 46	\$49,175 97
Paid for AID RENDERED SUNDRY PERSONS OUT OF THE ALMS- HOUSE:		
To John Hogan, for board of Mrs. Mar- tin Canfield.....	43 40	
John Harrington, for moving furni- ture	2 25	
Margaret J. Hefferman, for board of Walter J. Noonan.....	13 00	
Charles Head, for assistance in cash	36 00	
Margaret Kelley, for board of child- ren of ——— Brown.....	45 00	
Mrs. Cornelius Larkin, for assistance in cash.....	8 00	
Mrs. William J. Moran, for board of children of Bernard Rafferty.....	86	
Mrs. Francis McRann, for assist- ance in cash.....	40 00	
Mrs. Edward McKenna, for assist- ance in cash.....	19 00	
McKissock & Co., for fuel.....	2 00	
Sophia Monnett, for board of child..	8 00	
D. W. Mosher, for moving furniture	2 00	
R. B. Nevins, for board of child of Alice Folsom.....	8 00	
J. F. Nickles, for rent of tenement for Sarah H. Farwell.....	4 00	
Margaret O'Brien, for board of child- ren of ——— Brown.....	5 00	
Catherine O'Connor, for board of Margaret Sheridan.....	19 71	
Mrs. S. A. Proper, for child's cloth- ing.....	3 45	
P. F. Pettee, for conveyance of Mrs Martin Canfield.....	70	
Ann Quinn, for assistance in cash..	40 00	
Martha Roy, for assistance in cash..	40 00	
Floyd Smith, for conveyance of Mrs. Martin Canfield.....	1 00	
L. E. Shepard, agent, for rent of tenement for Mrs. William Kellett	12 00	
Rebecca Simpson, for board of Nellie Foley and children.....	6 00	
Mrs. Henry T. Sherman, for assist- ance in cash.....	5 00	
<i>Amounts carried forward</i>	\$1,182 83	\$49,175 97

Amounts brought forward \$1,182 83 \$49,175 97

Paid for AID RENDERED SUNDRY
PERSONS OUT OF THE ALMS-
HOUSE:

To Mrs. Joshua Shaw, for aid rendered Florence Harrison	8 00	
Mrs. B. P. Twiss, for board of abandoned child and child of Katie Damon	4 00	
James Tryon, for board of Betsey Straw	12 00	
Mary A. Walker, for board of Fannie Clifford, Walter J. Noonan and Michael J. Noonan	51 33	
M. A. Whittier, for board of S. E. Moulton, travelling expenses and board of children	55 16	
Mary Ward, for assistance in cash . .	4 00	
Ella Witherell, for assistance in cash	32 00	
	<hr/>	\$1,349 32

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE OVER-
SEERS OF THE POOR:

To Buttrick & Co., for groceries	\$62 50	
Thomas P. Bowers, for fuel	2 00	
Alfred Barney, for groceries	8 00	
F. H. Chandler, for groceries	12 00	
Charles Callahan, for groceries	34 00	
Coffey Bros., for groceries	2 00	
Charles Deming, for groceries	5 25	
Donovan & Co., for groceries	14 00	
Thomas Eagan, for groceries	8 00	
Ela & Puffer, for groceries	46 00	
Fuller & Clark, for groceries	4 00	
James Finnegan, for groceries	13 00	
Gibson Bros., for groceries	26 45	
D. S. Gray, for groceries	2 00	
J. F. Holland, for groceries	94 00	
Hartwell & Co., for groceries	53 00	
Edward Kelly, for groceries	13 00	
Patrick Keyes, for groceries	2 00	
Henry A. Kittredge, for shoes	4 00	
William Kittredge, for fuel	10 00	
C. C. Knowles, for hat	2 00	
	<hr/>	
<i>Amounts carried forward</i>	\$417 20	\$50,525 29

Amounts brought forward..... \$417 20 \$50,525 29

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE OVER-
SEERS OF THE POOR :

To J. L. Loisel, for dry goods.....	12 97
William E. Livingston, for fuel.....	10 50
Lowell Co-operative Association, for groceries	3 00
A. McSorley, for groceries.....	39 00
D. W. Manning, groceries.....	18 00
F. D. Munn, & Son, for groceries..	41 45
George Maguire, for groceries.....	64 00
Miller Bros., for groceries.....	16 00
Edward Martin, for groceries.....	5 00
Niven & Thompson, for provisions..	6 00
Nichols & Fletcher, for groceries...	66 25
James Owens, for groceries.....	42 00
S. A. Proper, for clothing.....	5 60
Fred H. Parker, for groceries.....	11 00
Orrin B. Randlett, for groceries....	8 00
J. B. Richardson & Sons, for gro- ceries.....	20 00
Sheldon & Pearson, for groceries...	20 00
Stickney & Spofford, for groceries..	53 00
Timothy Sullivan, for groceries.....	7 00
Daniel Swan, for shoes.....	2 00
John T. Seede, for groceries.....	11 00
J. B. Trueworthy, for shoes.....	2 00
D. B. Taylor, for shoes.....	10 50
E. C. Wilson, for wood.....	2 00

893 47

Paid for SUNDRIES OUT OF THE
ALMSHOUSE :

To James W. Moulton, for services in office of Secretary of Overseers of the Poor.....	\$677 00
James W. Moulton, for cash paid for travelling expenses, postage, etc..	13 89
L. F. Jewell, for cash paid for trav- elling expenses, postage, etc.....	47 71
Michael Corbett, for cash paid for expenses of committee.....	49 23
William H. Parker, for cash paid for expenses of committee.....	2 59

Amounts carried forward..... \$790 42 \$51,418 76

Amounts brought forward \$790 42 \$51,418 76

Paid for SUNDRIES OUT OF ALMS-
HOUSE:

To Henry G. Cushing, for service of writ	3 80	
R. S. Clifford, for repairing clock...	1 00	
S. G. Mack & Co., for stove pipe...	75	
W. E. Potter, for obtaining employ- ment	50	
Campbell & Hanscom, for blank book and printing.....	45 05	
Citizen Newspaper Co., for printing	17 75	
Franklin Printing Co., for printing..	3 00	
C. L. Knapp & Son, for printing...	5 00	
Marden & Rowell, for printing.....	2 50	
F. P. Coggeshall, for blank book...	1 25	
H. C. Church & Son, for blank book, pens, rubber bands, ink and eraser.....	11 75	
Marston & Prince, for pens.....	75	
J. Merrill & Son, for stationery....	6 73	
E. H. Morse, for carriage hire.....	20 10	
G. W. Norris, for carriage hire.....	20 70	
George S. White, for carriage hire..	1 75	
Charles M. Sherman, for moving fur- niture.....	3 00	
		935 80

Whole expenditure for the year.....	\$52,354 56
Balance undrawn January 1, 1883.....	4,686 77
	<u>\$57,041 33</u>

POLICE.

Balance undrawn January 1, 1882..	\$3,677 59	
Appropriated and assessed in 1882..	53,500 00	
	<hr/>	\$57,177 59

RECEIPTS

Received into the Treasury on account
of POLICE :

From Edward J. Noyes, City Marshal, for services of police officers, and sale of cloth.....	\$1,641 62	
Samuel P. Hadley, Clerk of Police Court, on account of fees of police officers, and witness fees.	6,537 47	
Oberlin Lodge, for services of po- lice officers.....	42 50	
Reserved Fund, for sundries	99 00	
Appropriations for Water Works, sundries.....	7 50	
	<hr/>	8,328 09
		<hr/>
		<u>\$65,505 68</u>

EXPENDITURES.

Paid CITY MARSHAL AND PO-
LICE JUSTICE :

To Edward J. Noyes, City Marshal, salary	\$1,700 00	
Nathan Crosby, Police Justice, sal- ary	100 00	
	<hr/>	1,800 00
<i>Amount carried forward...</i>		<hr/>
		\$1,800 00

Amount brought forward.....

\$1,800 00

Paid for SERVICES OF POLICE OFFICERS:

To Jacob G. Favor, Deputy Marshal...	\$1,095 00
Charles Howard.....	1,111 25
Charles Gregg.....	995 24
Frank Goodwin.....	994 13
Daniel M. Hayes.....	1,003 75
John F. McCaffrey.....	1,003 75
Simon B. Harris.....	998 00
Thomas E. Allen.....	722 50
Levi Brown.....	845 00
John E. Brown.....	37 50
Allen P. Bickford.....	607 50
John C. Blood.....	17 50
John Buchanan.....	862 50
William G. Bumps.....	796 25
Cyrus M. Beals.....	220 00
Josiah S. Blood.....	243 75
James Crowley.....	722 50
Cornelius Collins.....	883 75
Peter T. Corcoran.....	850 00
Michael Campion.....	36 25
Eugene B. Cheney.....	537 50
George B. Crawford.....	582 50
Edward G. Dyar.....	303 75
George R. Davis.....	907 50
James Dunlavey.....	906 25
George F. Dunlavey.....	907 50
Peter Donohoe.....	921 25
John Durrough.....	572 50
Asa F. Esty.....	348 75
Albert F. Elliott.....	316 25
Pierre Eno.....	122 50
Henry Farrington.....	898 75
Harrison H. Fuller.....	895 00
Patrick Fitzpatrick.....	762 50
David H. Goodhue.....	861 25
Willis L. Gardner.....	750 00
William H. Grady.....	855 00
Enoch N. Grinnell.....	827 50
Dennis F. Gallivan.....	741 25
James A. Hadley.....	917 50
Alexander W. Harper.....	860 00
John Hickson.....	905 00
Benjamin F. Hanson.....	841 25
James E. Holland.....	35 00

Amounts carried forward.....

\$30,622 37

\$1,800 00

<i>Amounts brought forward.....</i>	\$30,622 37	\$1,800 00
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Paid for SERVICES OF POLICE
OFFICERS :

To Alfred M. Holman.....	761 25	
Thomas Ingalls.....	817 50	
William B. Jones.....	915 00	
Patrick Kelley.....	92 50	
William R. Kew.....	907 50	
Albert E. Libbey.....	913 75	
Isaac L. Libby.....	828 75	
Daniel W. Lane.....	845 00	
William M. Lee.....	411 25	
Chester P. Lewis.....	751 25	
Charles Laflamme.....	882 50	
James McNabb.....	95 00	
James A. McQuade.....	843 75	
Charles J. Morse.....	761 25	
Sumner T. Mitchell.....	396 25	
William B. Moffatt.....	896 25	
M. E. McDonald.....	687 25	
James McLaughlin.....	531 25	
Peter F. O'Donnell.....	826 25	
John O'Connell.....	302 50	
Alonzo J. Page.....	906 25	
Henry C. Pike.....	888 75	
Charles C. Packard.....	902 50	
Thomas F. Ring.....	887 50	
James Kiley.....	900 00	
Thomas J. Sanborn.....	885 00	
Herbert Streeter.....	790 00	
Frank T. Thissell.....	381 25	
John W. Tilton.....	918 75	
Herman M. Tilton.....	913 75	
John Teague.....	276 25	
Joseph B. Varnum.....	582 50	
James E. Webster.....	922 50	
Levi H. Witham.....	866 25	
Sundry persons for services as special police.....	223 75	
	<hr/>	\$55,333 37

Paid for SUNDRIES :

To Appropriation for Schools, for brooms, mats, pails, etc.....	\$23 71	
Appropriation for School-Houses, for lumber, glass, shellac and varnish	41 12	
	<hr/>	
<i>Amounts carried forward.....</i>	\$64 83	\$57,133 37

<i>Amounts brought forward</i>	\$64 83	\$57,133 37
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Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for labor, etc.....	30 50
Appropriation, for Public Buildings, for labor.....	245 39
Appropriation for Water Works, for use of water.....	91 35
William Clifford, for services as jani- tor and badge.....	25 50
H. E. Reynolds, for services as jani- tor.....	756 80
Jacob G. Favor, for cash paid for conveyance of prisoners, postage stamps, expressing, etc.....	133 61
H. H. Fuller, for cash paid for con- veyance of prisoners, etc.....	318 01
Simon B. Harris, for cash paid for travelling expenses, camphor, use of horse, etc.....	357 45
James A. Hadley, for cash paid for conveyance of prisoners, etc.....	96 15
Charles Howard, for cash paid for transportation of officers and ex- pressing.....	4 70
Daniel M. Hayes, for cash paid for conveyance of prisoners, etc.....	153 43
Isaac L. Libbey, for cash paid for labor.....	83 50
J. F. McCaffrey, for cash paid for travelling expenses, etc.....	128 33
James McLaughlin, for cash paid for conveyance of prisoners.....	30 42
E. J. Noyes, for cash paid for sta- tionary, postage, telegrams, travel- ling expenses, etc.....	57 80
J. E. Webster, for cash paid for bury- ing dogs.....	2 50
Nathan Allen, for professional ser- vices.....	2 00
G. J. Bradt, for professional services	6 00
G. W. Hilton, for professional ser- vices.....	4 00
S. J. Johnson, for professional ser- vices.....	4 00

<i>Amounts carried forward</i>	\$2,596 27	\$57,133 37
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Amounts brought forward..... \$2,596 27 \$57,133 37

Paid for SUNDRIES:

To Walter H. Leighton, for professional services	4 00	
E. A. McGannon, for professional services	2 00	
G. H. Pillsbury and H. P. Jefferson, for professional services.....	4 00	
F. R. Rix, for professional services.	8 00	
J. J. Sullivan, for professional services.....	12 00	
Hermion J. Smith, for professional services.....	2 00	
A. L. Brooks & Co., for lumber....	34 47	
A. Keddie, for labor on lumber.....	1 25	
M. C. Pratt & Co.. for lumber.....	48 08	
H. A. Fielding, for shovel and wheelbarrow.....	7 20	
H. B. Shattuck, for hardware.....	19 71	
Frederick Taylor, for hardware.....	5 20	
O. E. Averill, for blacksmithing....	16 50	
Cahill Bros., for shoeing horses....	35 50	
Cole & Nichols, for castings.....	34 55	
E. M. Foster, for pipe, fittings, burners, gas governor, labor, etc..	188 38	
T. R. Garity & Co., for pipe, fittings, chandeliers, lantern, signs, marble slab, labor etc.....	316 65	
S. H. Jones, for bowl and labor....	17 00	
Jerry Ryan, for tin.....	40	
Rice & Co., for iron doors, guards, etc.....	91 69	
H. A. Wilder, for speaking tubes,	5 98	
C. Zimmer, for keys and labor.....	1 70	
G. H. Convers, for repairing carriages, etc.....	24 56	
Thomas C. Sawyer, & Sons, for wagon.....	165 00	
J. A. Brabrook, for repairing harnesses, club handles, etc.....	17 60	
Brabrook & Ebert, for repairing harness.....	1 70	
J. E. Conant & Co., for harness and whip.....	29 00	
M. Meaney, for horse cover, straight jackets, padding cell, etc.....	55 50	
<i>Amounts carried forward</i>	\$3,745 89	\$57,133 37

Amounts brought forward..... \$3,745 89 \$57,133 37

Paid for SUNDRIES :

To Samuel Pope, for horse.....	200 00
G. L. Huntoon, for use of horses and saddles.....	42 50
G. W. Norris, for use of horses and keeping horse.....	326 93
J. L. & J. G. Noyes, for carriage hire.....	4 00
George Richardson, for carriage hire, keeping horse, etc.....	136 10
Middlesex Company, for cloth.....	313 70
Waterbury Button Company, for but- tons.....	108 00
Adams & Co., for furniture, bedding, carpets, labor, etc.....	256 58
John Fischer, for photograph case..	135 00
E. Hapgood & Son, for mattresses..	9 00
H. Hosford & Co., for blankets, quilts, etc.....	31 84
Offut & Whitaker, for comforters, lamp, pitcher, goblets, etc.....	9 95
G. J. & D. Bradt, for crackers.....	108 00
George E. Scripture, for crackers...	29 75
Buttrick & Co., for tea, sugar, match- es, soap and brushes.....	52 08
Brace & Lathrop, for insect powder.	10 00
C. B. Coburn & Co., for oil, alcohol, ammonia, varnish, starch, glue, waste, brushes, sponge, etc.....	83 11
Fiske & Spaulding, for paper hang- ings, paint, glue, etc.....	14 26
French & Puffer, for cuspadore and tumblers.....	3 65
Daniel Gage, for ice.....	18 90
C. D. Washburn, for spittoon.....	50
Bachelor, Dumas & Co., for blank books, etc.....	40 50
H. C. Church & Son, for books, stationery, etc.....	17 80
F. P. Coggeshall, for books, sta- tionery, etc.....	59 10
Horace H. Knapp, for Rand & Mc- Nally's Atlas of the World.....	26 00
J. Merrill & Son, for ink.....	1 00
Citizen Newspaper Co., for printing.	9 00

Amounts carried forward..... \$5,793 14 \$57,133 37

Amounts brought forward..... \$5,793 14 \$57,133 37

Paid for SUNDRIES :

To	Campbell & Hanscom, for printing..	4 75	
	Marden & Rowell, for printing and advertising.....	5 00	
	Samuel O. Aborn, for wreaths and figures	32 80	
	Alvin Lawrence, for repairing badges	2 40	
	Harry Raynes, for badges and repair- ing badges, etc.....	28 25	
	O. A. Richardson, for marking police clubs	1 00	
	H. A. Winship, for belts, clubs, etc.	88 25	
	William P. Atwood, for analysis of beer and ale.....	27 00	
	Hutchins & Co., for watering street.	13 00	
	William C. Gray, for whitewashing.	9 00	
	D. M. Prescott, for mason work and material.....	71 55	
	Ithamar Howe, for photographs of prisoners.....	42 00	
	N. J. Loupret, for photographs of prisoners.....	2 00	
	Patten & Co., for bouquets.....	6 00	
	G. W. Patten, for bouquets.....	1 00	
	Mrs. J. Cosgrove, for damage to door.....	3 22	
	William Kittredge, for coal.....	432 16	
	Lowell District Telephone Co., for telephone service.....	58 00	
	Eastern Telephone Co., for telephone service.....	96 56	
	Telephone Cos., for telephone ser- vice	46 85	
	Lowell Gas Light Co., for gas.....	469 49	
	Mary Shea, for labor.....	58 30	
		<hr/>	7,291 72
	Whole expenditure for the year.....		<hr/> \$64,425 09
	Balance undrawn January 1, 1883.....		<hr/> 1,080 59
			<hr/> <hr/> \$65,505 68

FIRE DEPARTMENT.

Balance undrawn January 1, 1882.....	\$2,487 64	
Appropriated and assessed in 1882.....	58,000 00	
	<hr/>	\$60,487 64

RECEIPTS.

Received into the Treasury on account
of FIRE DEPARTMENT:

From Appropriation for Schools, for sundries.....	\$54 00	
Appropriation for Paupers, for sundries.....	251 41	
Appropriation for Sewers and Drains, for use of hose.....	75 00	
Appropriation for Lighting, for sundries.....	120 25	
Appropriation for Public Buildings, for sundries.....	16 00	
Appropriation Buildings at City Farm, for sundries.....	10 00	
Appropriation for Water Works, for labor, etc.....	568 95	
Lowell District Telephone Co., for wire.....	6 00	
Eastern Telephone Co., for poles..	10 00	
Middlesex Co., for part expense of Fire Alarm box.....	75 00	
Charles Clapp, for horse.....	200 00	
William H. Meloy, for rent.....	60 00	
E. S. Hosmer, for old material, etc.....	30 28	
W. A. Brown, for old hose.....	10 50	
John C. Bennett, for old stove....	12 00	
	<hr/>	
<i>Amounts carried forward</i>	\$1,499 39	\$60,487 64

<i>Amounts brought forward</i>	\$1,499 39	\$60,487 64
Received into the Treasury on account of FIRE DEPARTMENT:		
From H. H. Wilder & Co., for old cop- per.....	102 37	
W. B. Cheney, for rent of ward rooms.....	48 00	
George W. Pearsons, for rent of ward rooms.....	12 00	
	<hr/>	1,661 76
		<hr/>
		<u>\$62,149 40</u>

EXPENDITURES.

Paid CHIEF ENGINEER AND AS-
SISTANT ENGINEERS:

To Edward S. Hosmer, Chief Engineer	\$1,400 00	
Hiram N. Hall. 1st Assistant Engi- neer and elerk.....	225 00	
James F. Norton, Assistant Engi- neer.....	175 00	
Joseph W. White, Assistant Engi- neer.....	175 00	
Samuel W. Taylor, Assistant Engi- neer.....	175 00	
	<hr/>	\$2,150 00

Paid for SERVICES OF FIREMEN:

To Members of the several companies for services for the year ending Novem- ber 1, 1882.....	\$13,325 41	
	<hr/>	13,325 41
To Volunteer Hose Co., Pawtucketville, er resolution.....	\$300 00	
	<hr/>	300 00

Paid for SERVICES OF DRIVERS
AND PERMANENT FIREMEN:

To Frank Akers.....	\$796 50	
Henry Boynton.....	876 25	
James Cowell.....	845 25	
J. E. Coughlin.....	481 50	
	<hr/>	
<i>Amounts carried forward</i>	\$2,999 50	\$15,775 41

Amounts brought forward..... \$2,999 50 \$15,775 41

Paid for SERVICES OF DRIVERS
AND PERMANENT FIREMEN :

To H. J. Foster.....	849 00	
J. L. Flagg.....	845 25	
F. E. Fuller.....	481 50	
T. J. Farrell.....	845 25	
J. Harrington.....	836 25	
William H. Halstead.....	488 50	
F. Hoyt.....	468 00	
D. W. Hurley.....	452 25	
C. F. Hemenway.....	481 50	
William King.....	833 25	
A. E. Kidder.....	472 50	
E. J. Little.....	857 25	
G. W. Lovett.....	481 50	
William H. Meloy.....	802 50	
J. A. Peirce.....	857 25	
William L. Peabody.....	864 25	
A. C. Stearns.....	481 50	
	<hr/>	14,397 00

Paid for HAY, GRAIN, ETC. :

To Ame & Co , for standard food.....	\$99 90	
J. B. Cover & Co., for oats.....	29 52	
S. K. Dexter, for hay.....	49 99	
W. P. Foy, for corn, oats and shorts	110 56	
J. H. Hazen, for straw.....	10 18	
Knapp Bros., for carrots	64 82	
William E. Livingston, for corn, oats and shorts.....	380 92	
G. W. Norris, for straw.....	8 69	
J. O'Brien, for straw.....	14 58	
Edward O'Heir, for hay and straw..	1,058 93	
Walter Parkhurst, for straw.....	19 47	
L. D. Robinson, for straw.....	18 59	
Stiles, Rogers & Co., for oats, corn, shorts and straw.....	463 27	
George Tryder, for straw.....	14 94	
Whithed & Co., for oats.....	161 12	
S. N. Wood & Son, for oats, corn, shorts and straw.....	203 64	
Edward N. Wood, for oats, corn and shorts.....	165 33	
	<hr/>	2,874 45
<i>Amount carried forward</i>		<hr/> \$33,046 86

Amount brought forward \$33,046 86

Paid for HORSES, CARRIAGES,
HARNESSES, ETC. :

To Charles Clapp, one pair of horses...	\$600 00	
J. L. & J. G. Noyes, for difference between horses exchanged.....	675 00	
T. M. Bolton & Co., for whip, curry- comb and repairing harnesses....	27 45	
J. A. Brabrook, for repairing har- nesses, etc.....	121 66	
Brabrook & Ebert, for blankets and repairing harnesses.....	55 23	
S. L. Butman, for repairing har- nesses, etc.....	21 05	
A. H. Cluer, for repairing harnesses, etc.....	3 45	
J. E. Conant & Co., for whips.....	12 00	
Dyar & Patterson, for repairing har- ness	40	
Henry Edwards, for horse brushes.	14 00	
Appropriation for Roads and Bridges, for shoeing horses, repairing car- riages, etc.....	294 33	
O. E. Averill, for repairing car- riages, etc.....	16 70	
H. R. Barker, for repairing car- riages, etc.....	32 80	
Francis S. Berry, for shoeing horses, and repairing carriages.....	3 45	
F. A. Bates, for sleigh.....	40 00	
G. H. Convers, for hose sleigh and repairing earriages.....	716 35	
George L. Cady, for repairing steamer	21 94	
Charles Chamberlin & Co., for re- pairing carriage.....	3 55	
Daniel Gookin, for repairing car- riage	1 10	
Hunneman & Co., for freight on steamer	32 00	
C. A. Ross, for repairing carriage..	43 60	
Ryan Bros., for second-hand hook and ladder truck.....	177 00	
Swett & Robbins, for repairing car- riages	33 46	
<i>Amounts carried forward</i>	\$2,946 52	\$33,046 86

Amounts brought forward \$2,946 52 \$33,046 86

Paid for HORSES, CARRIAGES,
HARNESSES, ETC:

To Wright & Starr, for repairing steamer.....	8 00	
James Woods & Son, for lanterns and globes.....	17 75	
	<hr/>	2,972 27

Paid for FUEL:

To Appropriation for Schools, for coal and wood.....	\$211 49	
Appropriation for Roads and Bridges, for labor on coal.....	35 38	
Appropriation for Paupers, for wood and coal.....	18 50	
William Kittredge for wood and coal.....	581 24	
William E. Livingston, for coal....	172 50	
Whithed & Co., for coal.....	28 40	
	<hr/>	1,047 51

Paid for SUNDRIES:

To Appropriation for School Houses, for lumber, glass and hardware...	\$18 93	
Appropriation for Public Buildings, for labor.....	237 77	
Appropriation for Water Works, for use of water.....	14,254 00	
A. L. Brooks & Co., for lumber....	7 98	
J. C. Bachelder, for lumber.....	1 20	
Davis & Sargent, for lumber and telegraph poles.....	178 15	
Howes & Burnham, for lumber....	117 70	
William Kelley & Son, for sash.....	4 50	
M. C. Pratt & Co., for lumber, doors, sash and labor.....	13 25	
Charles E. Adams, for hardware....	1 79	
John C. Bennett, for hardware and tools.....	7 17	
H. A. Fielding, for hardware.....	1 35	
H. B. Shattuck, for hardware.....	64	
Frederick Taylor, for hose, telegraph wire, hardware, etc.....	709 34	
Abiel Pevey, for zinc.....	267 75	
	<hr/>	
<i>Amounts carried forward</i>	\$15,821 52	\$37,066 64

Amounts brought forward..... \$15,821 52 \$37,066 64

Paid for SUNDRIES :

To Pevey Bros., for castings.....	1 60	
R. A. Ripley, for lanterns.....	38 00	
O. E. Averill, for blacksmithing....	26 89	
Milton Aldrich, for insulator screws.	4 50	
Boutwell Bros., for iron.....	30	
H. R. Barker, for boiler, pipe, fit tings, hydrant chucks and labor...	1,220 01	
Daniel Blackington, for blacksmith- ing.....	82	
E. P. Bryant, for blacksmithing....	1 75	
Moses G. Crane & Co., for gongs, lightning arrester, etc.....	252 00	
Thomas Costello, for pipe, fittings and plumbing.....	48 48	
T. R. Garity & Co., for pipe, fit- tings and labor.....	25 95	
S. H. Jones, for pipe, fittings, hose, labor, etc.....	81 13	
E. P. Preston, for three-way siamese.	35 00	
Edwin Rogers, for signal boxes, wires, insulators and galvanometer	282 45	
Rice & Co., for wire cloth.....	8 51	
H. Sutcliffe, for repairing grain con- ductor	1 00	
E. Stebbins Manufacturing Co., for hose pipe and nozzle.....	49 00	
S. G. Mack & Co., for copper, zinc, iron and labor.....	21 26	
J. W. Stewart & Co., for stove, pipe, cans and labor.....	22 41	
Scannell & Wholey, for inspecting boilers. castings. packing and labor	36 00	
D. H. Wilson & Co., for brass cups.	4 00	
H. H. Wilder & Co., for ash hods, repairing lanterns, etc.....	46 88	
C. Zimmer, for keys and repairing lock.....	1 42	
H. B. & H. M. Bacon, for badges..	16 50	
Buttrick & Co., for salt.....	2 00	
Belt and Leather Stuffing Co., for hose dressing.....	12 50	
Carleton & Hovey, for cosmoline...	1 50	
<i>Amounts carried forward</i>	\$18,063 38	\$37,066 64

Amounts brought forward \$18,063 38 \$37,066 64

Paid for **SUNDRIES** :

To C. B. Coburn & Co., for oil, tar, soap, paint, rope, glass, brushes, packing, etc.....	132 12
H. C. Church & Son, for waste, books, ink, etc.....	18 25
F. H. Chandler, for rent of hose- house, oil, chimneys, etc.....	130 94
Corner & Cooper, for stencil.....	2 88
Fiske & Spalding, for signs, shades, painting and gilding.....	23 01
French & Puffer, for chamois skins, brooms, pails, basket , etc.....	115 51
E. M. Foster, for hose, labor, etc..	27 01
B. B. Fullerton, agent, for medicines for horse.....	5 35
J. Gates & Sons, for leather, hose, oil, labor, etc.....	649 72
P. H. Guyton, for soap.....	9 60
Charles H. Hobson, for iron bedsteads	21 75
J. R. Hayes, for medicine for horses	2 05
C. R. Kimball, for medicine for horses.....	2 75
J. Kendall & Co., for lampblack....	06
Middlesex Co., for wool waste.....	27 19
A. P. Noyes, for chamois skins and sponge.....	15 15
G. P. Palmer, for polishing oil.....	3 50
S. H. Redmond, for lettering door..	5 00
Robert Simpson for matches.....	24 00
C. P. Talbot & Co., for sal soda, vitriol, camphor, etc.....	388 31
Robert Wood, for treatment of horses	80 00
Adams & Co., for desk, chair and table.....	68 00
J. P. Folsom & Co., for crash, net- ting, etc.....	11 06
H. Hosford & Co., for crash, cotton- cloth, comforters, quilts, blankets and flannel.....	87 03
E. Hapgood & Son, for mattresses..	66 85
Offutt & Whitaker, for chairs and pil- lows.....	15 00
George F. Offutt, for chairs and table	22 50

Amounts carried forward \$20,017 97 \$37,066 64

Amounts brought forward..... \$20,017 97 \$37,066 64

Paid for SUNDRIES :

To J. F. Puffer & Son, for carpeting, comforters, pillows, chairs and stools	32 83
F. P. Coggeshall, for books, mucilage and ink	2 00
Campbell & Hanscom, for printing..	6 50
Stone, Batchelder & Livingston, for printing	4 25
Wilder Bennett, for mason work and material	53 07
F. M. Merrill, for mason work and material	32 80
D. M. Prescott, for mason work and material	33 90
Swcatt & Davis, for stone and labor	12 88
Staples Bros., for drain pipe, traps, bends, curves, etc.	24 54
E. S. Hosmer, for cash paid for expenses of committee, bedsteads, postage stamps, labor, etc.	202 52
E. S. Fowler, for coffee	5 00
Miller Bros., for refreshments	2 02
Merrimack House, for entertainment of committee and visitors	14 25
Frank E. Shaw, for entertainment of committee and visitors	9 00
G. L. Huntoon, for carriage hire...	8 00
J. L. Noyes & Son, for carriage hire	14 50
J. L. & J. G. Noyes, for carriage hire	39 00
E. L. Brown, for labor	2 50
E. C. Kelley, for labor	2 50
A. Kennedy, for labor	9 75
J. J. Locke, for labor	2 50
C. E. Luscomb, for care of horse carriage at Pawtucketville	17 50
J. P. Merehant, for labor	2 50
George B. Whitney, for services as operator of fire alarm telegraph...	1,000 00
J. E. Firth, for labor	34 50
C. S. Hibbert, for labor	2 00
Eastern Telephone Co., for rental of apparatus for one year	320 00

Amounts carried forward..... \$21,908 78 \$37,066 64

FIRE DEPARTMENT.

129

Amounts brought forward..... \$21,908 78 \$37,066 64

Paid for SUNDRIES :

To Lowell Gas Light Co., for gas.....	429 59	
Boston, Lowell & Concord Railroads, for transportation.....	20 71	
Lovejoy & Co.'s Express, for trans- portation.....	1 25	
U. S. & C. Express, for transporta- tion	2 50	
	<hr/>	22,362 83
Whole expenditure for the year.....		<hr/> \$59,429 47
Balance on hand January 1, 1883.....		2,719 93
		<hr/> <hr/> \$62,149 40

SEWERS AND DRAINS.

Appropriated and assessed in 1882.....	\$68,000 00	
	<hr/>	\$68,000 00

RECEIPTS.

Received into the Treasury on account
of SEWERS AND DRAINS :

IN JANUARY.

From George W. Harris, for sewer assessment, Coolidge street.....	\$32 04	
George W. Harris, for sewer assessment, Coolidge street.....	27 64	
George W. Harris, for sewer assessment, Coolidge street.....	32 04	
George W. Harris, for sewer assessment, Coolidge street.....	40 32	
O. D. Lombard, for sewer assessment, Cheever street.....	23 06	
John H. Harrington, for sewer assessment, Fremont street.....	34 38	
Daniel W. Barth, for sewer assessment, Fremont street.....	48 83	
B. F. Heald, for sewer assessment, Fremont street.....	25 26	
Anna G. Parker, for sewer assessment, Fremont street.....	77 18	
Joseph S. Anderson, for sewer assessment, Fremont street.....	29 75	
William H. Parker, for sewer assessment, Hall street.....	59 57	
George W. Harris, for sewer assessment, Hall street,.....	40 31	
	<hr/>	
<i>Amounts carried forward</i>	\$470 38	<hr/> \$68,000 00

Amounts brought forward \$470 38 \$68,000 00

Received into the Treasury on account
of SEWERS AND DRAINS :

IN JANUARY.

From O. D. Lombard, for sewer assessment, Hall street.....	23 03	
Daniel Churchill, for sewer assessment, Hale street.....	29 27	
Daniel Churchill, for sewer assessment, Hale street.....	48 82	
Patrick Buckmaster, for sewer assessment, Kinsman street.....	21 80	
Jesse N. Bassett, for sewer assessment, Kinsman street.....	17 63	
Samuel C. Eaton, for sewer assessment, Hale street.....	57 17	
Samuel C. Eaton, for sewer assessment, Hale street.....	32 02	
James Donovan, for sewer assessment, Madison street.....	39 30	
John T. Peabody, for sewer assessment, Madison street.....	47 62	
Freeman B. Shedd, for sewer assessment, Smith street.....	99 70	
Cyrus P. Barclay, for sewer assessment, Smith street.....	110 77	
A. L. Garrison, for sewer assessment, Tenth street.....	8 97	
T. D. Berry, for sewer assessment, Walker street.....	32 97	
Chesley Brawn, for overdraft.....	80	
	<hr/>	1,040 25.

IN FEBRUARY.

From Appropriation for Roads and Bridges, for sewer assessment, West Clark street.....	\$32 87	
Appropriation for Public Buildings, for sewer assessment, West Clark street.....	48 54	
Appropriation for Commons, for sewer assessment, West Clark street.....	61 01	
Charles Callahan, for sewer assessment, River street.....	20 02	
<i>Amounts carried forward</i>	<hr/> \$162 44	<hr/> \$69,040 25

<i>Amounts brought forward.....</i>	\$162 44	\$69,040 25
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Received into the Treasury on account
of SEWERS AND DRAINS :

IN FEBRUARY.

From Duane P. Staey, for sewer assessment, Fremont street.....	24 54	
Bartlett & Smith, for sewer assessment, Smith street.....	24 50	
Richard Kitson, for sewer assessment, Moody street.....	75 40	
Lowell Manufacturing Co., for sewer assessment, Moody street	40 08	
Hugh McEvoy, for sewer assessment, Tenth street.....	84 28	
Samuel J. Gibby, for sewer assessment, Hale street.....	22 50	
Samuel J. Gibby, for sewer assessment, Hale street.....	23 62	
Heirs of Michael Flannagan, for sewer assessment, Kinsman street.....	16 62	
Patrick McQuade, for sewer assessment, Kinsman street.....	14 31	
Julia Williams, for sewer assessment, Pawtucket street.....	5 89	
St. John's Hospital, for sewer assessment, High street.....	64 99	
James Scott, for sewer assessment, Madison street.....	44 91	
Jemima Coburn, for sewer assessment, Hale street.....	119 95	
Samuel T. Brown, for sewer assessment, First street.....	21 83	
Odenathus Simpson, for sewer assessment, Fremont street.....	121 09	
John F. Thissell, for sewer assessment, Tenth street.....	88 68	
Merrimaek Manufacturing Co., for sewer assessment, River street..	40 04	
Heirs of Joshua Bennett, for sewer assessment, First street	210 54	
Robert Wood, for labor.....	10 50	
	<hr/>	1,216 71
<i>Amount carried forward.....</i>		<hr/> \$70,256 96

Amount brought forward..... \$70,256 96

Received into the Treasury on account
of SEWERS AND DRAINS :

IN MARCH.

From Daniel Gage, for sewer assessment, Pawtucket street	\$42 81	
Daniel Gage, for sewer assessment, Pawtucket street	174 15	
Daniel Gage, for sewer assessment, Pawtucket street	111 97	
David Lane, for sewer assessment, Westford street	199 39	
Mary A. Corregan, for sewer as- sessment, Livingston street....	52 87	
Mrs. C. W. Marsh, for assess- ment, Smith street	62 00	
John Davis, for sewer assessment, River street	20 02	
Estate of Thomas Purcell, for sew- er assessment, First street	28 20	
Eugene E. Stoughton, for sewer assessment, Smith street	37 33	
Thomas F Morris, for sewer as- sessment, John street	31 99	
Lowell Felting Mills, for sewer as- sessment, Pawtucket street	57 09	
Lowell Felting Mills, for sewer as- sessment, Pawtucket street	117 09	
Michael Buckley, for remote drainage, South street	35 00	
Charles E. Jameson, for remote drainage, Grand street	25 00	
L. G. Howe, for remote drainage, First street	25 00	
	<hr/>	1,019 91

IN APRIL.

From Robert McKissock, for sewer as- sessment, First street	\$49 54	
Artemas Wheeler, for sewer assess- ment, School street	38 25	
James Sullivan, for sewer assess- ment, Lane street	37 25	
William Parr, for sewer assess- ment, Lane street	37 20	
	<hr/>	
<i>Amounts carried forward</i>	\$162 24	\$71,276 87

<i>Amounts brought forward.....</i>	\$162 24	\$71,276 87
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN APRIL.

From F. S. Perkins, for sewer assessment, Smith avenue.....	9 53	
Henry C. Pike, for sewer assessment, Lane street.....	35 62	
Daniel Gage, for sewer assessment, Lane street.....	37 50	
Hayden & Smith, for sewer assessment, Lane street.....	37 50	
James Smith, for sewer assessment, Osgood street.....	37 50	
David Lane, for sewer assesment, Lane street.....	34 50	
Boardman & Fox, for entering sewer in Chestnut street.....	20 00	
Appropriation for Public Buildings for sundries.....	13 50	
Appropriation for Aiken street, for sundries.....	12 40	
	<hr/>	400 29

IN MAY.

From Margaret Munroe, for sewer assessment, School street.....	\$37 50	
John Ames, for sewer assessment, Hastings street.....	35 02	
John Ames, for sewer assessment, Hastings street.....	19 63	
John Ames, for sewer assessment, Hastings street.....	19 09	
George Stevens, for sewer assessment, Lane street.....	42 00	
Julia Curry, for sewer assessment, Lane street.....	56 85	
H. C. Brothers, for sewer assessment, Hastings street.....	38 92	
H. C. Brothers, for sewer assessment, Hastings street.....	44 85	
Ephraim Lund, for sewer assessment, Lane street.....	37 50	
W. L. Gordon, for sewer assessment, School street.....	55 50	
	<hr/>	
<i>Amounts carried forward.....</i>	\$386 86	\$71,677 16

<i>Amounts brought forward</i>	\$386 86	\$71,677 16
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN MAY.

From Rufus Allen, for sewer assessment, School street.....	37 50	
Amelia Miller, for entering sewer in Broadway.....	20 00	
Greenwood Bros., for entering sewer, Prospect street.....	25 00	
Appropriation for Roads and Bridges, for sundries.....	26 25	
Appropriation for Water Works, for sundries.....	5 25	
	<hr/>	500 86

IN JUNE.

From Moses Stanchfield, for sewer as- sessment, Hastings street.....	\$15 26	
Mrs. Sidney Spaulding, for assess- ment, Walker street.....	94 82	
Mrs. Sidney Spaulding, for sewer assessment, Walker street.....	225 86	
John Howe, for sewer assessment, Lane street.....	66 75	
John F. Buckley, for sewer assess- ment, Smith street.....	83 80	
Hannah T. Chase, for sewer as- sessment, School street.....	36 75	
Henry P. Hasey, for sewer assess- ment, Smith street.....	69 67	
Preston & Hasey, for sewer assess- ment, Smith street.....	55 39	
Taylor & Carson, for sewer assess- ment, Smith street.....	55 39	
Horatio Wood, for sewer assess- ment Liberty street.....	88 05	
E. A. & A. T. Smith, for sewer assessment, Smith avenue.....	48 96	
Sybil Brown, for sewer assess- ment, Smith street.....	52 04	
A. P. Bateman, for sewer assess- ment, New Fletcher street.....	29 10	
John W. Howe, for sewer assess- ment, Smith street.....	44 76	
	<hr/>	
<i>Amounts carried forward</i>	\$966 60	\$72,178 02

<i>Amounts brought forward</i>	\$966 60	\$72,178 02
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Received into the Treasury on account
of SEWERS AND DRAINS:

IN JUNE.

From Heirs of William Kelley, for sewer assessment, Lane street.....	75 00	
Oliver Fiske, for sewer assessment Liberty street.....	66 82	
Charles Scribner, for sewer assess- ment, Liberty street.....	99 75	
John G. Stedman, for sewer as- sessment, Columbus avenue....	56 30	
John G. Stedman, for sewer as- sessment, Columbus avenue....	21 79	
John G. Stedman, for sewer as- sessment, Columbus avenue....	19 82	
John G. Stedman, for sewer as- sessment, Columbus avenue....	21 33	
John G. Stedman, for sewer as- sessment, Columbus avenue....	21 65	
John G. Stedman, for sewer as- sessment, Columbus avenue....	28 88	
John G. Stedman, for sewer as- sessment, Columbus avenue....	21 65	
John N. Wright, for sewer as- sessment, Columbus avenue....	30 39	
O. D. Lombard, for sewer assess- ment, Columbus avenue.....	25 99	
Augustus Peterson, for sewer as- sessment, New Fletcher street..	18 97	
George W. Sargent, for sewer as- sessment, School street.....	58 12	
James F. Gordon, for sewer as- sessment, Lane street.....	60 67	
Lewis E. Farwell, for sewer assess- ment, Smith street.....	37 12	
Elbridge Dearborn, for sewer as- sessment, Lane street.....	75 00	
J. F. Bateman, for entering mar- ginal sewer.....	25 00	
S. P. Sargent, for entering mar- ginal sewer.....	20 00	
Appropriation for Roads and Bridges, for sundries.....	62 10	
<i>Amounts carried forward</i>	\$1,812 95	\$72,178 02

Amounts brought forward..... \$1,812 95 \$72,178 02

Received into the Treasury on account
of SEWERS AND DRAINS :

IN JUNE.

From Appropriation for Public Buildings, for sundries.....	11 50	
Appropriation for Aiken Street, for sundries....	114 38	
	<hr/>	1,938 83

IN JULY.

From Moses Stanchfield, for sewer assessment, Hastings street.....	\$27 23	
F. G. Sargent, for sewer assessment, Smith avenue.....	16 75	
Mrs. F. G. Sargent, for sewer assessment, Smith avenue.....	15 76	
Puffer & Robbins, for sewer assessment, Smith avenue.....	17 64	
Puffer & Robbins, for sewer assessment, Smith avenue.....	40 44	
J. Y. Bradbury, for sewer assessment, Smith avenue.....	17 17	
Margaret McCarthy, for sewer assessment, Lane street.....	51 00	
Francis Carll, for sewer assessment, Osgood street.....	45 00	
Francis Carll, for sewer assessment, Osgood street.....	37 50	
Francis Carll, for sewer assessment, Osgood street.....	52 12	
Francis Carll, for sewer assessment, Osgood street.....	37 50	
Francis Carll, for sewer assessment, Osgood street.....	37 50	
Francis Carll, for sewer assessment, Liberty street.....	14 25	
N. D. Hill, for sewer assessment, Hastings street.....	123 15	
Mrs. L. A. Plumado, for sewer assessment, Lane street.....	37 50	
Richard Dobbins, for sewer assessment, Smith street.....	32 29	
Robert A. Soderbury, for sewer assessment, Hastings street....	26 53	
	<hr/>	
<i>Amounts carried forward</i>	\$62 9 33	\$74,116 85

Amounts brought forward..... \$629 33 \$74,116 85

Received into the Treasury on account
of SEWERS AND DRAINS:

IN JULY.

From James McCoy, for sewer assess- ment, School street.....	37 50	
James McCoy, for sewer assess- ment, Lane street.....	75 00	
Charles P. Perham, for sewer as- sessment, Lane street.....	41 25	
Elbridge Dearborn, for sewer as- sessment, School street.....	35 25	
Stephen Ford, for sewer assess- ment, Lane street.....	70 12	
Edward Hoole, for sewer assess- ment, Osgood street	53 17	
R. B. Caverly, for sewer assess- ment, Fremont street	27 28	
Silas Ferrin, for sewer assessment, Smith street.....	45 37	
Mary D. Beede, for sewer assess- ment, Lane street	57 00	
Mrs. C. O. Streeter, for sewer as- sessment, Liberty street.....	34 50	
J. P. Thompson, for sewer assess- ment, New Fletcher street.....	30 60	
Boott Cotton Mills, for sewer as- sessment, First street.....	377 35	
L. B. Hall, for sewer assessment New Fletcher street.....	18 99	
J. W. Hart, for sewer assessment, Smith street.....	29 53	
Carll & Miller, for sewer assess- ment, Lane street	120 00	
H. C. Duganne, for sewer assess- ment, Madison street.....	56 20	
Appropriation for Aiken street, for sundries.....	24 06	
Appropriation for Roads and Bridges, for sundries.....	26 77	
		1,789 27

IN AUGUST.

From A. P. Bateman, for sewer assess- ment, Smith street.....	\$46 50	
C. B. Stevens, for sewer assess- ment, Smith street.....	35 92	
<i>Amounts carried forward</i>	\$82 42	\$75,906 12

Amounts brought forward..... \$82 42 \$75,906 12

Received into the Treasury on account
of SEWERS AND DRAINS:

IN AUGUST.

From John F. Buckley, for sewer assessment, Fletcher street.....	40 22	
John M. Sprague, for sewer assessment, School street.....	37 50	
Mrs. John H. Wyman, for sewer assessment, New Fletcher street	29 63	
George F. Penniman, for sewer assessment, Liberty street.....	85 78	
J. G. Steetman, for entering marginal sewer.....	20 00	
Estate of J. C. Ayer, for entering Worthen-street sewer.....	50 00	
Trumbull & Cheney, for labor...	40 85	
Appropriation for Aiken street, for sundries.....	10 00	
Appropriation for Roads and Bridges, for sundries.....	21 85	
		418 25

IN SEPTEMBER.

From Robert G. Bartlett, for sewer assessment, Fletcher street.....	\$45 11	
J. E. Short, for sewer assessment, Powell street.....	90 00	
George N. Osgood, for sewer assessment, School street.....	192 60	
George N. Osgood, for sewer assessment, School street.....	37 50	
George N. Osgood, for sewer assessment, Osgood street.....	183 22	
George N. Osgood, for sewer assessment, Osgood street.....	37 50	
George N. Osgood, for sewer assessment, Osgood street.....	37 50	
George N. Osgood, for sewer assessment, Osgood street.....	37 50	
George N. Osgood, for sewer assessment, Osgood street.....	37 50	
George N. Osgood, for sewer assessment, Osgood street.....	37 50	
William G. Howe, for sewer assessment, Myrtle street.....	22 70	
<i>Amounts carried forward</i>	\$758 63	\$76,324 37

Amounts brought forward..... \$78 63 \$76,324 37

Received into the Treasury on account
of SEWERS AND DRAINS:

IN SEPTEMBER.

From Thomas F. Burgess, for sewer assessment, Liberty street.....	35 02	
Myra French, for sewer assessment, New Fletcher street.....	24 95	
Abbie E. Taylor, or sewer assessment, New Fletcher street.....	34 42	
Jonathan Ladd, for entering sewer, Andover street.....	30 00	
B. G. Mooney, for bricks.....	2 56	
Appropriation for Roads and Bridges, for sundries.....	102 55	
Lowell Institution for Savings, on note.....	30,000 00	
Lowell Institution for Savings, for premium on note.....	1,230 00	
	<hr/>	32,218 13

IN OCTOBER.

From G. F. Hill, for sewer assessment, Lane street.....	\$37 50	
A. C. Wheelock, for sewer assessment, Tremont street.....	32 13	
George W. Cummings,* for sewer assessment, Lane street	37 50	
George E. Hooper, for sewer assessment, Osgood street.....	37 50	
M. B. Randlett, for sewer assessment, School street.....	86 85	
Susan Holt, for sewer assessment, Liberty street.....	33 90	
S. N. Harris, for sewer assessment, Hildreth street	46 97	
J. F. Puffer & Son, for entering sewer, Bridge street	32 00	
C. F. Varnum, for entering sewer, Westford street	20 00	
W. H. Bagshaw, for entering sewer, Cambridge street.....	20 00	
Daniel Stickney, for flagging.....	6 97	
Appropriation for Streets, for sundries.....	34 00	
	<hr/>	
<i>Amounts carried forward</i>	\$425 32	\$108,542 50

Amounts brought forward..... \$425 32 \$108,542 50

Received into the Treasury on account
of SEWERS AND DRAINS :

IN OCTOBER.

From Appropriation for School Houses, for sundries.....	255 74	
Appropriation for Intercepting Sewer, for sundries.....	60 20	
	<hr/>	741 26

IN NOVEMBER.

From John W. Healey, for sewer assessment, New Fletcher street.....	\$71 80	
George N. Osgood, for sewer assessment, Liberty street.....	34 72	
M. G. Perkins, for sewer assessment, Liberty street	33 00	
Albert W. Danforth, for sewer assessment, Hildreth street	46 97	
Thomas Luther, for sewer assessment, Bachelder place.....	16 40	
Mrs. S. B. Richardson, for sewer assessment, Liberty street.....	48 75	
Thaddeus S. Cobb, for sewer assessment, Eleventh street.....	37 39	
Henry P. Hasey, for sewer assessment, Liberty street.....	38 01	
Henry P. Hasey, for sewer assessment, Liberty street.....	38 25	
Shaw Stocking Co., for sewer assessment, Liberty street.....	36 94	
Shaw Stocking Co., for sewer assessment, Liberty street.....	36 45	
F. B. Shedd, for sewer assessment East Merrimack street.....	193 17	
B. S. Hussey, for sewer assessment New Fletcher street.....	35 40	
John Swett, for sewer assessment, Liberty street.....	68 62	
John Swett, for sewer assessment, Liberty street.....	127 39	
L. R. J. & D. H. Varnum, for sewer assessment, Hildreth street	23 02	
<i>Amounts carried forward</i>	<hr/> \$886 28	<hr/> \$109,283 76

Amounts brought forward..... \$886 28 \$109,283 76

Received into the Treasury on account
of SEWERS AND DRAINS :

IN NOVEMBER.

From L. R. J. & D. H. Varnum, for sewer assessment, Hildreth street	82 96	
Stephen Baker, for sewer assess- ment, South Highland street...	38 74	
Sarah R. Tebbetts, for sewer as- sessment, Methuen street.....	9 13	
Joseph W. Griffin, for sewer as- sessment, Lombard street.....	41 31	
Samuel W. Locke, for sewer as- sessment, Lombard street.....	39 57	
Flora R. Stevens, for sewer as- sessment, Twelfth street.....	44 20	
John Fisher, for sewer assessment, Pond street.....	21 81	
Franklin Martin, for sewer assess- ment, Liberty street.....	69 75	
John Howe, for sewer assessment, Smith street.....	29 55	
C. T. Cutting, for sewer assess- ment, Hildreth street.....	75 15	
C. T. Cutting, for sewer assess- ment, Twelfth street.....	20 17	
W. A. Ingham, for remote drain- age, Marginal street.....	20 00	
Appropriation for School Houses for sewer assessment, West Sixth street.....	34 20	
Appropriation for School Houses, for sewer assessment, Liberty street.....	230 98	
James O'Neil, for overdraft.....	3 50	
Appropriation for Roads and Bridges, for sundries.....	24 00	
	<hr/>	1,671 30

IN DECEMBER.

From Edward T. Rowell, for sewer as- sessment, Tenth street.....	\$41 54	
Eli W. Hoyt, for sewer assessment East Merrimack street.....	136 17	
<i>Amounts carried forward</i>	<hr/> \$177 71	<hr/> \$110,955 06

Amounts brought forward \$177 71 \$110,955 06

Received into the Treasury on account
of SEWERS AND DRAINS:

IN DECEMBER.

From John H. McAlvin, for sewer assessment, Methuen street.....	55 09	
Levi Sprague, sewer assessment, Mansur street.....	127 26	
J. F. Puffer, Jr., for sewer assessment, West Sixth street.....	32 44	
Thomas Walsh, for sewer assessment, Eleventh street.....	57 38	
Willard A. Wheeler, for sewer assessment, Bachelder place.....	16 00	
Mary A. Savage, for sewer assessment, Eleventh street.....	28 69	
Charles W. Foster, for sewer assessment, South Highland street	51 01	
Abel L. Davis, for sewer assessment New Fletcher street.....	21 35	
Andrew Conant, for sewer assessment, Methuen, street.....	23 65	
F. W. and F. I. Hull, for sewer assessment, Liberty street.....	17 25	
Gilman F. Wright, for sewer assessment, Twelfth street.....	56 62	
George B. Farnham, for brick...	82 50	
Appropriation for Roads and Bridges, for sundries.....	7 21	
Appropriation for School-Houses, for sundries.....	11 50	
Appropriation for Intercepting Sewer, for sundries.....	371 79	
Appropriation for Water Works, for sundries.....	56 10	
		1,193 55
		<u>\$112,148 61</u>

EXPENDITURES.

Paid for LABOR AS PER MONTHLY
PAY-ROLLS :

In	January	\$8,591 16	
	February	2,904 58	
	March	547 37	
	April	6,378 00	
	May	6,912 42	
	June	7,128 87	
	July	9,554 08	
	August	4,077 81	
	September	9,081 99	
	October	8,657 57	
	November	2,068 43	
	December	1,074 82	
		<hr/>	66,977 10

Paid for DAMAGES AND ABATE-
MENTS :

To	Proprietors of Locks and Canals on Merrimack river, for 1,704 feet of land taken in laying out West street	\$426 00	
	Leonard Huntress, Jr., for medical attendance on James Ring	48 00	
	Savory & Fiske, for medical attend- ance on Richard Flynn	7 00	
	J. J. Sullivan, for medical attend- ance on John Regan	10 00	
	Charles Clapp, for damage to car- riage	8 00	
	Nathan Clough, for draining well in construction of sewer in Myrtle street	35 00	
	George E. Scripture, for damage to property	12 13	
	Elbridge Dearborn, for abatement on sewer assessments	40 00	
	Southwell Farrington, for abatement on assessment for sewer in Aiken street	23 00	
	George W. Harris, for amount paid for remote drainage in Cabot street	25 00	
		<hr/>	
	<i>Amounts carried forward</i>	\$634 13	\$66,977 10

Amounts brought forward \$634 13 \$66,977 10

Paid for DAMAGES AND ABATE-
MENTS :

To Sybil Brown, for abatement on assessment for sewer in Smith street	16 80	
Cyrus P. Barclay, for abatement on assessment for sewer in Smith street.....	35 77	
John F. Buckley, for abatement on assessment for sewer, in Smith street.....	27 06	
Henry P. Hasey, for abatement on assessment for sewer, in Smith street.....	22 50	
John W. Howe, for abatement on assessment for sewer in Smith street.	14 45	
Catherine W. Marsh, for abatement on assessment for sewer in Smith street.....	20 02	
Asa Preston and Henry P. Hasey, for abatement on assessment for sewer in Smith street.....	17 89	
Freeman B. Shedd, for abatement on assessment for sewer in Smith street.....	32 20	
Eugene E. Stoughton, for abatement on assessment for sewer in Smith street.....	12 03	
Paris K. Taylor and Margaret Carson for abatement on assessment for sewer in Smith street.....	17 89	
L. R. J. and D. H. Varnum, for land taken in laying out West street, per resolution.....	1,627 60	
	<hr/>	2,478 34

Paid for PIPE, BRICK, CEMENT,
LUMBER, HARDWARE, ETC. :

To Staples Bros., for pipe, cement and labor	\$7,851 64	
Charles A. Kendall, for pipe.....	2 35	
Boott Cotton Mills, for brick.....	569 05	
Frederick Frye, for brick.....	2,228 88	
Jesse Gault, for brick.....	3,444 45	
Jabez Green, for brick.....	2,217 34	
	<hr/>	
<i>Amounts carried forward</i>	\$16,313 71	\$69,455 44

<i>Amounts brought forward</i>	\$16,313 71	\$69,455 44
Paid for PIPE, BRICK, CEMENT, LUMBER, HARDWARE, ETC:		
To Lawrence Manufacturing Co., for brick	175 00	
David Smith, for brick.....	1,138 93	
Middleborough Blue Stone Co., for catch-basin stones.....	284 00	
William E. Livingston, for cement and coal.....	3,339 41	
Merrimack Woolen Mills, for sand..	38 50	
A. P. Bateman, for lumber.....	345 60	
Badger & Holmes, for lumber and labor	39 90	
Davis & Sargent, for lumber.....	318 11	
Howes & Burnham, for lumber.....	92 02	
M. C. Pratt & Co., for lumber.....	13 74	
William A. Russell, for lumber.....	122 00	
Whitney & Tibbetts, for lumber....	1,453 14	
C. E. Adams, for hardware, tools, etc.....	158 78	
John C. Bennett, for pick handles...	8 25	
Bull & Berger, for steel tape.....	7 00	
Thomas Duckles, for hardware.....	5 03	
H. A. Fielding, for hardware. tools, etc.....	308 09	
H. B. Shattuck, for hardware, tools, etc.....	49 29	
Frederick Taylor, for hardware, tools, etc.....	288 02	
Boutwell Bros., for iron, steel, forges, etc.....	148 83	
C. J. Cheney, for hoisting-jack.....	35 00	
Cole & Nichols, for castings.....	17 79	
Pevey Bros., for castings.....	3,350 14	
Richard Dobbins, for castings and labor.....	4 95	
Thomas Firth & Sons, for steel.....	166 96	
Rice & Co., for wire-cloth.....	8 72	
E. A. & A. T. Smith, for concrete..	4 50	
	<hr/>	28,235 41
Paid for SUNDRIES :		
To Appropriation for Schools, for coal..	44 55	
Appropriation for Roads and Bridges, for services of City Engineer.....	71 38	
	<hr/>	
<i>Amounts carried forward</i>	\$115 93	\$97,690 85

Amounts brought forward \$115 93 \$97,690 85

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for services of Superintendent of Streets.....	600 00	
Appropriation for Roads and Bridges, for keeping horses, stone, labor, etc.	2 ,305 62	
Appropriation for Paupers, for wood.	78 50	
Appropriation for Fire Department, for use of hose.....	75 00	
Appropriation for Public Buildings, for labor	6 88	
Appropriation for Water Works, for damage to pipe, etc.....	67 83	
William Kelley & Son, for sash and glass	1 60	
Parker & Cheney, for labor on lum- ber	50	
O. E. Averill, for blacksmithing....	3 35	
H. R. Barker, for brass screws, pump seats, labor, etc.....	23 05	
Charles Chamberlin & Co., for black- smithing	6 90	
T. Costello & Co., for dippers.....	40	
E. M. Foster, for hose couplings, packing and labor.....	33 06	
T. R. Garity & Co., for felt and pipe	5 65	
S. H. Jones, for pipe, valve and labor	23 26	
Lowell Gas Light Co., for repairing pipe	55 30	
Alvin Lawrence, for repairing blast- ing apparatus.....	2 50	
S. G. Mack & Co., for sleeves and repairing pump.....	20 77	
William Robinson, for repairing forge, etc.....	17 08	
Joseph Turner, for cart nuts, screws etc.....	21 05	
William H. Ward, for capstan head	5 00	
H. H. Wilder & Co., for pipe, pumps, pail, lanterns, labor, etc..	145 42	
T. H. Curtis, for filing saws.....	6 25	
C. T. Haskell, for filing saws.....	10 00	
<i>Amounts carried forward</i>	<hr/> \$3,630 90	<hr/> \$97,690 85

Amounts brought forward..... \$3,630 90 \$97,690 85

Paid for SUNDRIES :

To J. H. Haskell, for filing saws.....	14 07
John F. Callahan, for brooms.....	60
F. H. Chandler, for oat meal.....	114 00
C. B. Coburn & Co., for oil, glass, putty, borax, potash, rope, hose, barrels, etc.....	307 22
Carlton & Hovey, for glue, ink, etc	2 60
W. F. Downing, for salt.....	1 50
Fiske & Spaulding, for paint and pencils.....	75
J. Gates & Sons, for pump suckers, packing and belting.....	64 09
L. W. Hall, for salt.....	40
Hartwell & Co., for oat-meal, oil and brooms.....	2 46
H. C. Ingerson, for salt.....	40
Langley & Smith, for bags.....	1 40
Miller Bros., for oat-meal, oil and matches.....	5 99
Nichols & Fletcher, for powder, dualin, exploders, wire, salt, oil etc.....	3,294 00
H. M. Rice & Co., for salt.....	15
A. L. Ready, for canvas.....	12 70
Smart & Frost, for brooms.....	70
H. W. Streeter, for salt.....	20
Darius Whithed, Jr., for oat-meal oil and broom.....	2 78
Campbell & Hanscom, for printing..	2 25
Marden & Rowell, for printing.....	2 00
Bachelor, Dumas & Co., for blank books.....	4 50
Mrs. H. M. Brown, for binding maps	5 64
F. P. Coggeshall, for blank books, stationery, etc.....	24 10
H. C. Church & Son, for pens.....	1 50
Thomas Groom & Co., for paper...	10 92
J. Merrill & Son, for blank books, stationery, etc.....	4 67
A. Whitney, for blank books and pencils.....	4 00
T. M. Bolton & Co., for fly net.....	1 50
M. C. Huntoon, for rubber boots...	34 75

Amounts carried forward..... \$7,552 74 \$97,690 85

Amounts brought forward..... \$7,552 74 \$97,690 85

Paid for SUNDRIES :

To N. M. Wright & Co., for rubber boots.....	7 75	
Hapgood Wright, for rubber boots..	34 00	
George E. Evans, for cash paid for postage stamps, cards, repairing instruments, etc.....	3 50	
John C. Woodward, for cash paid for expenses of committees.....	37 63	
Proprietors of Locks & Canals, on Merrimack river, for rent of land and use of derrick.....	30 00	
St. John's Hospital, for board and medical attendance on Patrick Callahan.....	36 00	
Robert Goulding, for repairing roof.	13 53	
Osborn Merrill, for storage, damage to pasture and labor.....	65 50	
A. F. Brown, for mason work.....	13 50	
Staples Bros., for mason work.....	52 50	
Charles A. Kendall, for sewer connections.....	11 45	
G. L. Huntoon, for carriage hire....	3 50	
P. F. Pettie, for carriage hire.....	1 05	
B. G. Brown, for labor with team...	9 00	
George Bissell, for labor with team..	17 50	
Patrick Callahan, for labor.....	57 00	
Michael Carr, for labor.....	4 50	
Thomas Finnick, for labor with team	83 25	
M. Finnegan, for labor.....	2 00	
William Groves, for labor.....	42 00	
John Henry, for labor with team....	1 50	
A. K. Hood, for lumber, labor, etc	24 64	
John Labarge, for labor with team..	34 87	
Frank Mehan, for labor, with team..	3 00	
Thomas Mooney, for labor with team	42 75	
Bernard Riley, for labor with team..	21 97	
C. P. Salls, for labor with team.....	38 25	
O. A. Simpson, for labor with team	83 25	
D. P. Knowlton, for labor with team	50	
R. Welch, for labor with team.....	2 50	
F. H. Penniman, for labor with team	121 50	
James Ring, for labor with team....	57 00	
Watson Bros., for labor with team...	58 50	
<i>Amounts carried forward</i>	\$8,568 13	\$97,690 85

<i>Amounts brought forward</i>	\$8,568 13	\$97,690 85
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Paid for SUNDRIES :

To C. H. Whitney, for labor with team	6 75	
Boston, Lowell & Concord Railroads, for transportation.....	591 80	
Boston & Maine Railroad, for trans- portation.....	394 70	
U. S. & Canada express, for trans- portation.....	1 25	
	<hr/>	9,562 63
Whole expenditure for the year.....		\$107,253 48
Balance undrawn January 1, 1883.....		4,895 13
		<hr/>
		<u>\$112,148 61</u>

INTERCEPTING SEWER

RECEIPTS.

Received into the Treasury on account of INTERCEPTING SEWER:		
From Perkins, Dupee & Co., for 50 Inter- cepting Sewer Loan Bonds, and premium on same.....	\$51,275 00	
William Taylor, for 6 Intercepting Sewer Loan Bonds, and premium on same.....	6,240 00	
		<u>57,515 00</u>

EXPENDITURES.

Paid for LABOR AS PER MONTHLY PAY-ROLLS:		
In September.....	\$322 50	
October.....	3,062 65	
November.....	8,470 82	
December.....	5,380 27	
		<u>17,236 24</u>
Paid for LAND AND DAMAGES:		
To Sundry persons for land taken and damage to property to wit:		
Catherine Benson.....	\$77 00	
Daniel Benson.....	500 00	
Maria J. Blake.....	73 00	
Nathan Crosby.....	75 00	
George Green.....	100 00	
		<u> </u>
<i>Amounts carried forward.....</i>	<i>\$825 00</i>	<i>\$17,236 24</i>

<i>Amounts brought forward</i>	\$825 00	\$17,236 24
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Paid for LAND AND DAMAGES :

To John Hennessey.....	91 00	
James Meadowcroft.....	281 00	
Patrick Morris.....	178 00	
Joseph Marthan.....	164 00	
Mary McCarty.....	96 00	
Alexander H., & Agnes A. Robin- son.....	500 00	
Estate of Joseph Raynes.....	250 00	
Annie L. Richmond.....	1,900 00	
Trustees of Dartmouth College and Annie Wentworth.....	550 00	
Mary Tully.....	55 00	
Andrew C. Wheelock.....	123 00	
H. L. Williams.....	207 00	
Hapgood Wright.....	400 00	
	<hr/>	5,620 00

Paid for SUNDRIES :

To Appropriation for Schools, for coal..	55 79
Appropriation for Roads and Bridges, for services of Supt. of Streets.....	300 00
Appropriation for Roads and Bridges for engineering.....	281 40
Appropriation for Roads and Bridges for stone, sand, lumber and labor..	556 55
Appropriation for Sewers and Drains for dualin, exploders, engineering, etc.....	431 99
Appropriation for Paupers, for wood	15 00
Davis & Sargent, for lumber.....	542 40
Howes & Burnham, for lumber.....	162 89
Badger & Holmes, for mauls and handles.....	5 20
Whitney & Tibbetts, for lumber....	809 99
Lewis D. Gumb, for ring-stones....	160 00
Robert Gardner, for stone and labor	10 00
Sweatt & Davis, for stone.....	58 50
Frye & Clement, for brick.....	2,290 56
Jesse Gault, for brick.....	1,350 67
Isaac H. Pollard, for brick.....	857 60
David Smith, for brick.....	2,027 97
Staples Bros., for pipe.....	131 54

<i>Amounts carried forward</i>	\$10,048 05	\$22,856 24
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Amounts brought forward..... \$10,048 05 \$22,856 24

Paid for SUNDRIES :

To William E. Livingston, for cement and coal.....	2,243 20	
Whithed & Co., for cement.....	936 00	
American Bolt Co., for bolts and spikes	11 96	
Boutwell Bros., for iron, steel, and chain	259 73	
H. A. Fielding, for hardware and tools.....	236 91	
H. B. Shattuck, for hardware and tools.....	29 32	
Frederick Taylor, for hardware and tools.....	19 76	
H. R. Barker, for pipe, fittings, labor, etc	182 16	
T. Costello & Co., for dualin machine	8 00	
E. M. Foster, for pipe, fittings, solder, bolts, felt, hose, etc.....	106 24	
S. G. Mack & Co., for pipe, boiler, etc	48 66	
H. H. Wilder & Co., for pail, dipper, and repairing pumps.....	8 50	
Richard Dobbins, for labor on boiler	5 65	
Scannell & Wholley, for repairing and inspecting boiler.....	9 90	
R. S. Clifford, for repairing tape-measure.....	25	
Joseph Turner, for screws and nuts.	9 00	
Trumbull & Cheney, for derrick....	275 00	
S. L. Ward, for derrick.....	325 00	
George T. McLauthlin, for engine..	1,117 50	
Webb & Watson, for hoisting engines	2,250 00	
C. B. Coburn & Co., for oil, rope, casks, brooms, blocks, etc.....	288 21	
John Devine, for salt.....	61	
Hecla Powder Co., for powder	252 50	
A. L. Ready, for canvas, rope and visc	221 05	
George H. Sampson, for drill, battery, powder, etc.....	1,017 29	
Middlesex Company, for boxes and pipe covering.....	53 77	
G. W. Norris, for hay	8 78	
M. C. Huntoon, for rubber boots...	12 00	
<i>Amounts carried forward</i>	\$19,985 00	\$22,856 24

Amounts brought forward..... \$19,985 00 \$22,856 24

Paid for SUNDRIES :

To N. M. Wright & Co., for rubber boots	8 00	
Hapgood Wright, for rubber boots..	8 25	
Brabrook & Ebert, for leather case..	2 25	
F. P. Coggeshall, for blank book...	75	
Forbes Lithograph Mng. Co., for 150 Sewer Loan Bonds.....	50 00	
J. Merrill & Son, for letter file.....	1 75	
B. G. Brown, for labor with team...	72 00	
George Bissell, for labor with team..	62 50	
Charles Clapp, for labor with team..	27 00	
Bernard Halpine, for use of boat, etc.	34 75	
A. K. Hood, for labor.....	25 89	
Luke McFarlin, for boat.....	9 00	
George W. Coburn, for services appraising damages to property.....	25 00	
William E. Potter, for services appraising damages to property.....	100 00	
Levi Sprague, for services appraising damages to property.....	200 00	
J. H. Haskell, for filing saws.....	8 60	
Thomas Mooney, for labor with team	20 25	
D. W. Mosher, for labor with team.	1 25	
F. H. Penniman, for labor with team	116 43	
William Roberts, for labor with team	1 50	
Bernard Riley, for labor with team..	22 50	
O. A. Simpson, for labor with team and use of derrick.....	61 75	
M. P. Sias, for labor and use of machinery and engine.....	343 68	
S. Tompkins, for labor with team...	50	
A. Willett, for labor with team.....	18 00	
William H. Ward, for labor.....	72 00	
Boston & Lowell & Concord Railroads, for transportation	6 05	
Boston & Maine Railroad, for transportation.....	1,260 14	
Old Colony Railroad, for transportation	2 03	
John C. Woodward, for cash paid for expenses of committee	14 58	
		22,561 40
Whole expenditure for the year.....		\$45,417 64
Balance undrawn January 1, 1883.....		12,097 36
		<u>\$57,515 00</u>

COMMONS.

Appropriated and assessed in 1882.....	\$4,000 00	
	<hr/>	\$4,000 00

RECEIPTS.

Received into the Treasury on account
of COMMONS:

From Reserved Fund for sundries.....	\$5 00	
Appropriation for Roads and Bridges, for horse.....	75 00	
J. E. Conant & Co., for horse....	12 75	
George Suttle, for old lumber....	35 00	
S. A. McPhetres, City Clerk, for rent of grounds.....	368 50	
	<hr/>	496 25
		<hr/>
		\$4,496 25
		<hr/>

EXPENDITURES.

*Paid on account of FOUNTAIN ON
NORTH COMMON:

To Staples Bros., for labor on material.	\$1,593 08	
George Suttle, for grading and sodding	270 00	
	<hr/>	\$1,863 08
		<hr/>
<i>Amount carried forward.....</i>		\$1,863 08

*The cost of the fountain, including amount charged to Reserved Fund in 1881, was \$3,388.60

Amount brought forward..... \$1,863 08

Paid for SUNDRIES :

To Sundry persons, for labor, as per pay rolls.....	\$1,093 61	
Appropriation for Roads and Bridges, for horse, keeping horse, labor, etc.	492 59	
Appropriation for Sewers and Drains, for sewer assessment West Clark street.....	61 01	
Appropriation for Public Buildings, for labor.....	4 38	
Appropriation for Water Works, for pipe and labor.....		
Appropriation for Water Works, for use of water.....	81 10	
C. E. Adams, for lantern globes....	11 50	
Frederick Taylor, for hardware and tools.....	17 40	
H. R. Barker, for repairing flag-staff	2 00	
E. M. Foster, for lead, packing, trap and labor.....	79 45	
T. R. Garity & Co., for labor.....	27 50	
S. H. Jones, for labor on machines..	71 90	
William Robinson, for labor on seats	15 72	
Pevey Bros., for castings and labor.	26 60	
O. E. Averill, for blacksmithing....	1 50	
Howes & Burnham, for lumber and labor	9 95	
W. H. Wiggin, for lumber.....	9 25	
C. B. Coburn & Co., for gold-leaf, oil, japan and brush.....	8 92	
Fiske & Spalding, for paint and brushes	30 29	
T. M. Bolton, for halter, strap, etc..	2 00	
E. J. Noyes, for keeping horse.....	2 50	
M. F. Coffey, for taking care of horse	6 25	
James F. Sullivan, for labor.....	6 25	
James McLaughlin, for cash paid for labor, waste, key, bolts, etc.....	1 40	
E. A. & A. T. Smith, for concrete..	418 80	
		2,485 20
Whole expenditure for the year.....		\$4,348 28
Balance undrawn January 1, 1883..		147 97
		<u>\$4,496 25</u>

PRINTING AND ADVERTISING.

Balance undrawn January 1, 1882.....	\$5 34	
Appropriated and assessed in 1882.....	3,200 00	
	<hr/>	\$3,205 34

RECEIPTS.

Received into the Treasury on account
of PRINTING AND ADVERTISING.

From Appropriation for Water Works, for paper'.....	\$52 80	
	<hr/>	52 80
		<hr/> <u>\$3,258 14</u>

EXPENDITURES.

Paid for PRINTING AND ADVERTISING, etc. :

To Appropriation for Water Works, for 250 copies of the Annual Report of the Lowell Water Board.....	\$21 76
Bachelor, Dumas & Co., for printing and binding.....	72 25
Campbell & Hanscom, for printing and advertising	423 37
Citizen Newspaper Co., for printing and advertising.....	314 35
Franklin Printing Co., for printing..	4 25
Huse, Goodwin & Co., for printing and advertising	580 10
Huse, Goodwin & Co., for paper...	401 69
	<hr/>
<i>Amount carried forward.....</i>	\$1,817 77

Amount brought forward..... \$1,817 77

Paid for PRINTING AND ADVERTISING :

To Harrington Bros., for printing and advertising.....	316 40	
C. L. Knapp & Son, for printing and advertising.....	123 00	
Lowell Weekly Sun, for printing and advertising.....	34 50	
Marden & Rowell, for printing and advertising.....	270 98	
Morning Mail Co., for printing and advertising.....	162 06	
Publishers of L'Abeille, for printing and advertising.....	30 50	
Stone, Bacheller & Livingston, for printing and advertising.....	225 95	
Huntington Hall Bill-posting Co., for posting.....	13 00	
Lowell Bill-posting Co., for posting.	3 00	
W. S. Simons, for posting.....	40 00	
	<hr/>	3,037 16
Whole expenditure for the year.....		3,037 16
Balance undrawn January 1, 1883.....		220 98
		<hr/>
		\$3,258 14
		<hr/>

LIGHTING.

Balance undrawn January 1, 1882.....	\$2,556 46	
Appropriated and assessed in 1882.....	21,000 00	
	<hr/>	\$23,556 46

RECEIPTS.

Received into the Treasury on account
of LIGHTING :

From Appropriation for Schools, for sundries.....	\$32 65	
Appropriation for Roads and Bridges, for sundries.....	100 00	
H. K. Ferrin, for sleigh.....	32 50	
Globe Gas Light Co., for freight	1 44	
E. S. Hosmer, for lighting ward rooms.....	20 00	
Howes & Burnham, for lamp-post	12 50	
J. W. Robinson, for lamp post...	12 00	
E. A. Smith, for lamp post.....	3 50	
	<hr/>	214 59
		<hr/>
		\$23,771 05
		<hr/>

EXPENDITURES.

Paid for LIGHTING PUBLIC
BUILDINGS :

To Lowell Gas Light Co., for gas.....	\$1,730 36	
	<hr/>	1,730 36
		<hr/>
<i>Amount carried forward.....</i>		\$1,730 36

<i>Amount brought forward</i>		\$1,730 36
Paid for LIGHTING STREETS :		
To Sundry persons, for lighting street lights, as per pay rolls.....	\$4,176 30	
Appropriation for Road and Bridges, for keeping horse, labor etc.....	279 10	
Appropriation for Paupers, for coal..	37 30	
Appropriation for Fire Department, for desk and labor.....	120 25	
Appropriation for Public Buildings for labor.....	9 00	
Appropriation for Water Works, for use of water.....	13 00	
Lowell Gas Light Co., for gas consumed on streets.....	9,132 14	
Globe Gas Light Co., for lighting and maintenance of street lights..	4,654 11	
Globe Gas Light Co., for lanterns...	493 95	
A. Bachelder, for door.....	2 75	
M. C. Pratt & Co., for door.....	2 50	
Howes & Burnham, for lumber.....	65 47	
C. B. Stevens & Son, for lumber and labor	15 89	
C. E. Adams, for globes, lamps, brushes, hardware, paint, etc....	317 60	
H. B. Shattuck, for hardware	3 55	
Frederick Taylor, for hardware.....	2 12	
Frank E. Garland, for gas-lighter...	30 00	
Cole & Nichols, for lamp posts.....	550 00	
Pevey Bros., for lamp posts.....	25 00	
T. D. Bailey for chimney-cap	4 50	
Union Iron Foundry, for castings...	25 84	
O. E. Averill, for lantern frames....	66 00	
H. R. Barker, for pipe, fittings, etc.	80 05	
E. M. Foster, for pipe, fittings, labor, etc.....	58 99	
T. R. Garity & Co., for hose, couplings, pipe, fittings, etc.....	141 19	
C. T. Haskell, for key and filing saws	1 75	
S. G. Mack & Co., for plumbing, repairing lanterns, etc.....	160 01	
H. H. Wilder & Co., for gas-stove, pipe, lantern frames and labor....	74 14	
C. F. Blanchard, for medicine for horses	2 00	
Carleton & Hovey, for glycerine....	1 52	
<i>Amounts carried forward</i>	\$20,546 02	\$1,730 36

Amounts brought forward \$20,546 02 \$1,730 36

Paid for LIGHTING STREETS :

To C. B. Coburn & Co., for oil, alcohol, glycerine, asphaltum, camphor, glass, brushes, etc.....	301 44
Walter Coburn & Co., for waste....	9 38
H. Hosford & Co., for rags.....	7 50
A. T. Merrill, for coaline.....	3 00
French & Puffer, for feather dusters, mats, pail and tub.....	6 58
Robert Simpson, for matches.....	20 00
S. L. Butman for brush, halter, and repairing harnesses.....	16 46
T. M. Bolton & Co., for repairing harnesses	8 10
Sawyer & Taylor, for repairing har- ness.....	2 50
G. H. Convers, for repairing car- riages	54 41
Robert Wood, for carbolic cream...	1 00
C. H. Hanson, for keeping and use of horse.....	7 50
William E. Livingston, for oats, shorts, and coal.....	32 04
E. O'Heir, for hay.....	28 95
Stiles, Rogers & Co., for oats and corn.....	10 64
Adams & Co., for carpet, chairs, table, etc.....	30 23
A. L. Kittredge, for paper hangings, etc.	15 40
Fiske & Spalding, for shades and fixtures	8 09
S. D. Butterworth, for mortar, plas- ter paris, etc.....	7 25
F. P. Coggeshall, for blank books and stationery	9 05
Marden & Rowell, for printing.....	4 00
William H. Lee, for straw.....	8 10
Ira Hartwell, for mason work and material.....	6 13
E. S. Hosmer, for cash paid for ex- penses of committee.....	32 04
Lowell District Telephone Co., for telephone service.....	7 50

Amounts carried forward..... \$21,183 31 \$1,730 36

<i>Amounts brought forward</i>	\$21,183 31	\$1,730 36
Paid for LIGHTING STREETS :		
To Eastern Telephone Co., for telephone service.....	35 50	
Boston & Lowell & Concord Railroads, for transportation.....	9 88	
	<hr/>	21,228 69
Whole expenditure for the year.....		22,959 05
Balance undrawn January 1, 1883.....		812 00
		<hr/>
		\$23,771 05
		<hr/>

PUBLIC BUILDINGS.

Appropriated and assessed in 1882.....	\$15,000 00	
	<hr/>	\$15,000 00

RECEIPTS.

Received into the Treasury on account
of PUBLIC BUILDINGS:

From Appropriation for Schools, for labor, etc.....	\$1,665 06	
Appropriation for Roads and Bridges, for labor, etc.....	38 64	
Appropriation for Paupers, for labor and material.....	245 78	
Appropriation for Police, for labor, etc.....	245 39	
Appropriation for Fire Depart- ment, for labor, etc.....	237 77	
Appropriation for Lighting, for sundries.....	9 00	
Appropriation for City Hall Build- ing Lot, for labor and material.	127 70	
Appropriation for Sewers and Drains, for sundries.....	6 88	
Appropriation for Commons, for sundries.....	4 38	
Appropriation for Library, for labor, etc.....	6 89	
Appropriation for Health, for labor, etc.....	141 77	
Appropriation for Water Works, for labor, etc.....	86 83	
Reserved Fund, for labor, etc....	660 50	
W. D. Cheney, for rent of ward rooms.....	40 00	
George W. Pearson, for rent of ward rooms, labor, etc.....	80 88	
	<hr/>	3,597 47
		<hr/>
		\$18,597 47
		<hr/>

EXPENDITURES.

Paid SUPERINTENDENT OF PUBLIC BUILDINGS :

To W. D. Cheney, Acting Superintendent.....	\$96 77	
George W. Pearson, Superintendent, salary	1,403 23	
	<hr/>	\$1,500 00

Paid for LUMBER, HARDWARE, etc. :

To Otis Allen & Son, for lumber.....	\$3 75	
A. L. Brooks & Co., for lumber....	32 41	
Badger & Holmes, for posts, rails, etc	12 55	
J. C. Bachelder, for moulding.....	4 88	
Crosby Furniture Co., for moulding and bed irons.....	9 65	
Howes & Burnham, for lumber	72 45	
A. Keddie, for labor on lumber.....	14 50	
M. C. Pratt & Co., for lumber and door.....	373 67	
Whitney & Tibbetts, for lumber....	605 03	
Eureka Ventilation Co., for ventilators and labor.....	42 00	
Charles Griffin, for pump.....	9 00	
C. E. Adams, for hardware.....	9 99	
John C. Bennett, for rubber moulding.....	2 58	
H. A. Fielding, for hardware and tools	16 14	
J. B. Goodwin, for door knobs.....	2 00	
H. B. Shattuck, for hardware, glue, etc.	67 12	
Frederick Taylor, for hardware and tools.....	91 59	
Fairbairn Mnfg. Co., for grate bars.	41 64	
Pevey Bros., for castings.....	1 75	
Rice & Co., for wire cloth.....	51 32	
	<hr/>	\$1,464 02

Paid for SUNDRIES :

To sundry persons for labor, as per pay-rolls.....	\$5,647 88	
<i>Amounts carried forward</i>	\$5,647 88	\$2,964 02

<i>Amounts brought forward</i>	\$5,647 88	\$2,964 02
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Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for labor.....	83 85
Appropriation for Fire Department, for heating and lighting ward room	16 00
Appropriation for Sewers and Drains, for sewer assessment, West Clark street.....	48 54
Appropriation for Sewers and Drains, for brick, labor, etc.....	25 00
Appropriation for Water Works, for pipe, fittings, labor, and use of water.....	74 50
Buttrick & Co., for salt.....	30
C. B. Coburn & Co., for oil, spirits turpentine, alcohol, japan, lead, putty, brushes, etc.....	265 20
Daniel Cushing & Co., for glasses for Hyatt Light.....	7 20
A. L. Kittredge, for paper hangings, curtains and fixtures.....	6 60
J. Kendall & Co., for varnish and japan.....	1 00
M. Meaney, for pulleys.....	7 14
Nichols & Fletcher, for dualin.....	1 00
Noyes Man'f'g Co., for gas regulator	100 00
J. F. Puffer & Son, for enamelled cloth and bocking.....	18 95
O. E. Averill, for blacksmithing....	55 23
F. S. Berry, for blacksmithing.....	3 05
H. R. Barker, for pipe, fitting, chan- delier, globes and labor.....	336 06
T. Costello & Co., for pipe, valves, labor, etc.....	35 59
Eastern Telephone Co., for repairing lighting apparatus.....	9 60
T. R. Garity & Co., for pipe, fittings and labor.....	101 21
John Gilchrist, for pipe, brackets, solder, and labor.....	30 40
E. M. Foster, for pipe, fittings, labor, etc.....	133 80
S. G. Mack & Co., for pail, iron and labor.....	14 71

<i>Amounts carried forward</i>	<u>\$7,022 82</u>	<u>\$2,964 02</u>
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<i>Amounts brought forward</i>	\$7,022 82	\$2,964 02
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Paid for SUNDRIES :

To M. O'Flahavan, for glue-pot, and labor	1 85	
F. W. Proctor, for pipe, fittings, lead, labor etc.	301 34	
Jerry Ryan, for pipe, faucet, wrench, and labor.....	10 22	
H. H. Wilder & Co , for sink bowls, cuspadores, labor, etc.....	34 02	
C. Zimmer, for keys, springs, and labor	7 67	
Richard Dobbins, for castings, labor, etc	17 20	
James H. Roberts & Co., for Pickering governor.....	12 00	
Scannell & Wholey, for fire-escape for Huntington Hall	290 00	
Scannell & Wholey, for inspecting boilers, castings and labor.....	26 80	
S. D. Butterworth, for mason work and material.....	139 50	
E. W. Coburn, for mason work and material.....	8 26	
D. M. Prescott, for mason work and material.....	63 00	
C. A. Kendall, for drain pipe, traps, etc	51 62	
Staples Bros., for drain pipe.....	29 40	
S. B. Tallant & Co., for concrete...	19 70	
James Burns, for slate, zinc, and labor	1 76	
Robert Goulding, for slate, zinc, and labor	4 69	
R. S. Clifford, for repairing clock...	1 00	
Wyatt Stevens, for labor on boilers..	3 62	
C. L. Knapp & Son, for printing...	4 00	
Marden & Rowell, for printing	50	
Franklin Printing Co., for printing..	6 00	
H. C. Church & Son, for blank-books, stationery, etc	9 40	
Marston & Prince, for mucilage and ink.....	55	
J. Merrill & Son, for blank-book...	20	
<i>Amounts carried forward</i>	\$8,067 12	\$2,964 02

Amounts brought forward \$8,067 12 \$2,964 02

Paid for SUNDRIES :

To A. Whitney, for blank-books and stationery.....	14 43	
George F. Allen, for blankets, repairing harness, etc.....	14 70	
J. A. Brabrook, for whip and repairing harness.....	2 60	
C. A. Ross, for repairing carriages..	15 25	
Edwin Sanborn, for repairing carriages.....	64 36	
M. V. B. Libbey, for shoeing horses	31 15	
Adams & Co., for repairing chair...	40	
William Kittredge, for coal.....	35 31	
William E. Livingston, for coal, cement, sand, and lime.....	48 65	
J. W. Hollis, for cinders.....	3 00	
C. W. Kimball, for gravel.... :....	2 00	
Joseph Convery, for labor.....	2 20	
Ira Hartwell, for labor.....	1 50	
Patrick O'Neil, for labor	44	
George F. Pearson, for labor.....	96 00	
John Henry, for labor with team...	75	
John Hanley, for labor with team...	50	
James Leach, for labor with team...	1 00	
Frank S. Ladd, for labor with team.	50	
T. G. Little, for labor with team...	1 00	
J. C. Little, for labor with team....	4 00	
Timothy Kelly, for labor with team..	3 75	
John Farrell, for labor with team...	2 00	
O. A. Simpson, for labor with team.	15 00	
S. Tompkins, for labor with team...	1 00	
William Roberts, for labor with team	6 50	
Boston & Lowell Railroad Co., for additional insurance on Huntington Hall building	95 62	
Boston & Lowell & Concord Railroads, for transportation.....	1 13	
Lovejoy & Co., express, for transportation.....	65	
Penniman & Co., express, for transportation	25	
U. S. and Canada Express, for transportation.....	3 20	
<i>Amounts carried forward</i>	\$8,535 96	\$2,964 02

<i>Amounts brought forward</i>	\$8,535 96	\$2,964 02
Paid for SUNDRIES :		
To V. L. Wilson, per resolution	157 15	
	<hr/>	8,693 11
Whole expenditure for the year		11,657 13
Transferred to Appropriation for Schools		5,708 15
Balance undrawn January 1, 1883		1,232 19
		<hr/>
		\$18,597 47
		<hr/>

CITY HALL BUILDING LOT.

Balance undrawn January 1, 1882.....	\$2,667 08	
	<hr/>	\$2,667 08

RECEIPTS.

Received into the treasury on account
of CITY HALL BUILDING
LOT:

From Antoine Bernard, for rent.....	\$88 00	
Eli Brunnelle, for rent.....	96 00	
Frank Brunnelle, for rent.....	96 00	
William Charlton, for rent.....	96 00	
John F. Cosgrove, for rent.....	72 77	
John Gillon, for rent.....	108 00	
Andrew Haley, for rent.....	50 00	
Michael McDermott, for rent.....	70 00	
F. J. O'Roarke, for rent.....	108 00	
James M. Pierce, for rent.....	192 00	
Hattie Queenan, for rent.....	96 00	
L. C. Raymond, for rent.....	117 33	
William N. Roberts, for rent.....	192 00	
Phebe Scadding, for rent.....	96 00	
William N. Smith, for rent.....	192 00	
Moses W. Stockman, for rent....	192 00	
	<hr/>	\$1,862 10
		<hr/>
		\$4,529 18
		<hr/>

EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for School Houses, for glass, paint, varnish, etc.....	\$7 12
	<hr/>
<i>Amount carried forward</i>	\$7 12

Amount brought forward..... \$7 12

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for labor.....	18 39	
Appropriation for Public Buildings, for labor.....	127 70	
Appropriation for Water Works, for use of water, and flushing sewers	113 50	
A. L. Brooks & Co., for lumber....	3 80	
M. C. Pratt & Co., for lumber.....	3 40	
T. R. Garity & Co., for bracket and labor	4 40	
F. W. Proctor, for pipe, fittings and labor.....	44 18	
Jerry Ryan, for pipe, solder and labor.....	1 05	
L. C. Raymond, for clothes reel, etc.	3 00	
Rice & Co., for wire cloth.....	1 10	
Frederick Taylor, for hardware.....	3 28	
T. D. Bailey, for mason work and material.....	23 10	
H. B. Barnes, for paper hangings and labor.....	3 50	
C. B. Coburn & Co., for sash cord..	56	
D. H. Lane, for repairing roof.....	18 63	
Merrimac House, for labor with team	9 00	
James Tryon, for labor with team...	75	
		386 46
Whole expenditure for the year.....		\$386 46
Balance undrawn January 1, 1883..		4,142 72
		<u>\$4,529 18</u>

CITY LIBRARY.

Balance undrawn January 1, 1882.....	\$427 43	
Appropriated and assessed in 1882.....	4,000 00	
	<hr/>	\$4,427 43

RECEIPTS.

Received into the Treasury on account
of CITY LIBRARY :

From County of Middlesex, on account of dog licenses of 1881.....	\$2,063 81	
Marshall H. Clough, Librarian, for subscriptions	608 00	
Marshall H. Clough, Librarian, for catalogues, supplements, fines, lost books and paper.....	60 84	
Frank P. Hill, Librarian, for sub- scription	325 00	
Frank P. Hill, Librarian, for cata- logues, supplements, fines and books	70 32	
	<hr/>	3,127 97
		<hr/> <u>\$7,555 40</u>

EXPENDITURES.

Paid LIBRARIAN AND ASSIST-
ANTS :

To Marshall H. Clough, Librarian, salary	\$606 45	
Frank P. Hill, Librarian. salary..	554 84	
	<hr/>	
<i>Amount carried forward.....</i>	\$1,161 29	

Amount brought forward \$1,161 29

**Paid LIBRARIAN AND ASSIST-
ANTS :**

To Walter H. Gilman, for services in library.....	600 00	
Stephen T. Wyman, for services in library.....	600 00	
Horace F. Slocum, for services in library.....	321 00	
Harriet F. Hill, for services in library.....	112 50	
	<hr/>	\$2,794 79

Paid for BOOKS, ETC. :

To Leonard Brown, for books.....	15 00	
D. G. Brinton, for books.....	3 00	
James Betts & Co., for books.....	2 00	
Marshall H. Clough, for books.....	41 37	
F. P. Coggeshall, for books.....	668 52	
J. S. & J. A. Colby, for books.....	12 50	
W. B. Clark & Caruth, for books..	4 15	
Estes & Lauriat, for books.....	6 50	
E. Farrar, adm. for books, papers, and book-cases.....	86 00	
Sylvanus Hayworth, for book.....	6 75	
Horace H. Knapp, for books.....	31 75	
Library Catalogue Fund (Brooklyn), for catalogue.....	7 00	
Leonard & Co., for books.....	95 94	
F. Leypoldt, for periodicals.....	9 40	
George E. Littlefield, for book	13 50	
C. C. Morse & Son, for books.....	100 32	
John McKeown, for book.....	4 00	
N. E. Historic Genealogical Society, for book.....	3 00	
J. W. Randolph & English, for book	2 25	
Sullivan Bros. & Libbie, for books..	1,053 66	
Southern Historical Society, for books	24 75	
J. M. Stoddard, for books.....	12 00	
Thompson & West, for books.....	15 00	
A. Williams & Co., for books.....	2 50	
	<hr/>	2,220 86

Paid for SUNDRIES :

To Appropriation for School Houses, for lumber.....	\$2 15	
<i>Amounts carried forward</i>	<hr/> \$2 15	<hr/> \$5,015 65

<i>Amounts brought forward</i>	\$2 15	\$5,015 65
Paid for SUNDRIES :		
To Appropriation for Public Buildings, for labor	6 89	
Trustees of Arthur H. Hosford, for rent, heating, and use of water...	1,707 00	
Lowell Gas Light Co., for gas.....	172 57	
Milton Aldrich, for clamps.....	3 50	
F. & E. Bailey & Co., for dextrine.	36	
Bacheller, Dumas & Co., for blank- books, binding, and cards.....	231 27	
F. P. Coggeshall, for stationery, etc.	21 10	
F. J. Flemings, for paper.....	39 20	
J. Merrill & Son, for eraser.....	50	
Citizen Newspaper Co., for printing and advertising	4 25	
Campbell & Hanscom, for printing and advertising	23 15	
C. L. Knapp & Son, for printing....	2 25	
Huse, Goodwin & Co., for printing and advertising.....	17 00	
Marden & Rowell, for printing.....	1 00	
Boutwell Bros., for iron.....	10	
H. R. Barker, for pipe, fittings, and labor.....	11 10	
E. M. Foster, for pipe, fittings, and labor	37 05	
S. H. Jones, for tubing.....	1 80	
Frederick Taylor, for door-springs and wire.....	9 90	
C. B. Coburn & Co., for oil, spirits turpentine, japan, lead, putty, glue, twine, feather dusters, brushes, etc.	13 86	
Fiske & Spalding, for tracing cloth..	3 30	
Abner Kittredge, for paste.....	1 80	
H. H. Wilder & Co., for glue-pot...	1 25	
Warren L. Floyd, for lumber, mould- ing, shellac, and labor.....	59 16	
L. W. Wiggin, for graining book- case	8 00	
C. H. Abbott, for cloth	3 16	
M. H. Clough, for cash paid for stamps, cards, cloth, table, matches, traveling expenses, etc.....	36 28	
Frank P. Hill, for cash paid for post- age stamps, labor, tumblers, lock, traveling expenses, etc.....	47 62	
<i>Amounts carried forward</i>	<hr/> \$2,466 57	<hr/> \$5,015 65

<i>Amounts brought forward</i>	\$2,466 57	\$5,015 65
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Paid for SUNDRIES:

To J. F. Puffer & Son, for repairing chairs.....	2 00	
Richardson Ice Co., for ice.....	42 00	
Hutchins & Co., for watering street.	6 50	
George E. Stanley, for transportation	16 50	
	<hr/>	2,533 57
Whole expenditure for the year.....		7,549 22
Balance undrawn January 1, 1885.....		6 18
		<hr/>
		<u>\$7,555 40</u>

SALARIES.

Balance undrawn January 1, 1883.....	\$2,034 46	
Appropriated and assessed in 1882.....	16,000 00	
	<hr/>	\$18,034 46

EXPENDITURES.

Paid SALARIES OF SUNDRY OFFICERS:

To George Runels, Mayor.....	\$1,950 00	
John H. McAlvin, City Treasurer and Collector of Taxes.....	2,500 00	
Samuel A. McPhetres, City Clerk...	1,350 00	
David W. O'Brien, City Clerk.....	430 65	
David Chase, Auditor of Accounts and Clerk of Common Council....	1,800 00	
George F. Lawton, City Solicitor...	1,400 00	
John H. Nichols, City Messenger...	98 21	
John Ewing, City Messenger.....	901 79	
Wyllis G. Eaton, City Physician and Superintendent of Burials.....	300 00	
James Murphy, Sealer of Weights and Measures.....	400 00	
James W. B. Shaw, Inspector of Milk.....	100 00	
Luke McFarlin, Fish Warden.....	40 00	
Levi B. Stevens, Chairman of the Board of Assessors.....	900 00	
James Marren, Secretary of the Board of Assessors.....	875 00	
Isaac A. Fletcher, Assessor of Taxes	800 00	
David Lane, Assessor of Taxes.....	800 00	
Michael H. McCue, Assessor of Taxes	800 00	
William W. Read, Assessor of Taxes	800 00	
	<hr/>	16,245 65
Whole expenditure for the year.....		<hr/> \$16,245 65
Balance on hand January 1, 1883.....		1,788 81
		<hr/> <hr/> \$18,034 46

HEALTH.

Balance undrawn January 1, 1882	\$2,165 50	
Appropriated and assessed in 1882.....	5,000 00	
	<hr/>	\$7,165 50

RECEIPTS.

Received into the Treasury on account of HEALTH :		
From Appropriation for Sewers and Drains, for sundries.....	\$4 00	
	<hr/>	4 00
Transferred from Appropriation for Central Bridge.....		1,300 00
		<hr/>
		\$8,469 50
		<hr/>

EXPENDITURES.

Paid BOARD OF HEALTH :		
To James W. B. Shaw, Chairman	\$500 00	
Nathan Allen.....	200 00	
	<hr/>	\$700 00
Paid for PUBLIC BATHING :		
To Appropriations for Public Buildings, for lumber and labor.....	\$139 52	
Henry S. Foster, for services at bathing house.....	118 00	
Mrs. Charles Lee, for right to convey bath house across her land.....	5 00	
Luke McFarlin, for use of boat.....	12 50	
William Roberts, for labor with team	1 50	
O. A. Simpson, for labor with team.	18 50	
	<hr/>	295 02
<i>Amount carried forward.....</i>		<hr/>
		\$995 02

Amount brought forward..... \$995 02

Paid for SUNDRIES :

To sundry persons for labor, as per pay-rolls.....	\$4,207 69	
Appropriation for Roads and Bridges, for labor with teams, etc.....	2,062 51	
Appropriation for Sewers and Drains, for labor.....	4 00	
Appropriation for Public Buildings, for labor.....	2 25	
Appropriation for Water Works, for use of water.....	62 50	
O. E. Averill, for lantern frame, etc.	4 50	
E. M. Foster, for pipe and labor ...	7 42	
T. R. Garity & Co., for urinal, pipe, fittings, lanterns, and labor.....	222 06	
C. B. Coburn & Co., for bungs.....	15	
F. & E. Bailey & Co., for kine points.....	43 00	
C. F. Blanchard, for kine points....	20 00	
Carleton & Hovey, for kine points and chloride of lime.....	19 35	
C. I. Hood & Co., for kine points and lancet.....	39 95	
C. R. Kimball, for vaccine virus....	1 75	
W. G. Eaton, for services vaccinat- ing at Dispensary	125 00	
J. W. B. Shaw, for cash paid for postage stamps, envelopes, etc...	16 64	
James W. Moulton, for services as clerk	78 00	
C. H. Philbrick, for care of urinal..	60 00	
James Slaven, for labor and material	30 00	
M. Meaney, for canvas wagon-covers, etc.....	23 00	
Citizen Newspaper Co., for advertis- ing.....	3 70	
Campbell & Hanscom, for printing..	19 23	
Harrington Bros., for printing and advertising.....	5 00	
Huse, Goodwin & Co., for printing.	81 50	
C. L. Knapp & Son, for advertising.	9 75	
Morning Mail Co., for advertising...	2 00	
Marden & Rowell, for printing and advertising.....	18 00	
<i>Amounts carried forward</i>	\$7,168 95	\$995 02

<i>Amounts brought forward</i>	\$7,168 95	\$995 02
Paid for SUNDRIES :		
To Publishers of L'Abeille, for advertising.....	3 25	
Stone, Bacheller & Livingston, for printing and advertising.....	12 27	
W. S. Simons, for posting.....	5 00	
E. H. Morse, for carriage hire.....	71 00	
	<hr/>	7,260 47
Whole expenditure for the year.....		<hr/> \$8,255 49
Balance on hand January 1, 1883.....		214 01
		<hr/> <hr/> \$8,469 50

WATER WORKS.

Balance undrawn January 1, 1882.....	\$5,658 99	
Appropriated and assessed for 1882.....	28,000 00	
	<hr/>	\$33,658 99

RECEIPTS.

Received into the Treasury on account
of WATER WORKS:

From Sundry persons, for use of water in 1877.....	\$3 00	
Sundry persons, for use of water in 1880.....	1 93	
Sundry persons, for use of water, service pipes and sundries in 1881	12,018 32	
Sundry persons, for use of water, service pipes and sundries in 1882	128,307 87	
Sundry persons, for fees for shut- ting off and letting on water....	30 00	
Bachelor, Dumas & Co., for overdraft.....	31 80	
Boutwell Bros., for overdraft....	3 38	
Chadwick Lead Works, for over- draft	1 66	
	<hr/>	140,397 96
		<hr/> <u>\$174,056 95</u>

EXPENDITURES.

Paid PRESIDENT AND SUPERIN-
TENDENT:

To Albert A. Haggett, President.....	\$275 00	
Horace G. Holden, Superintendent..	1,600 00	
	<hr/>	1,875 00
<i>Amount carried forward.....</i>		<hr/> <u>\$1,875 00</u>

Amount brought forward..... \$1,875 00

Paid for LABOR, AS PER MONTH-
LY PAY-ROLLS :

In January.....	\$1,681 84	
February.....	1,117 64	
March.....	1,499 11	
April.....	1,888 23	
May.....	1,846 67	
June.....	1,629 54	
July.....	1,887 69	
August.....	1,975 82	
September.....	1,886 58	
October.....	1,816 84	
November.....	1,754 60	
December.....	1,090 14	
	<hr/>	20,074 70

Paid for INTEREST :

To sundry persons, for interest on City of Lowell Water Loan Bonds....	\$75,270 00	
Commonwealth of Massachusetts, for interest on note.....	2,500 00	
City Institution for Savings, for in- terest on notes.....	3,250 00	
Lowell Institution for Savings, for interest on notes	25,100 00	
Blake Bros. & Co., for interest on notes	3,000 00	
	<hr/>	109,120 00

Paid for FUEL :

To D. W. Horne & Son, for coal.....	\$28 91	
William Kittredge, for coal.....	10 63	
Whithed & Co., for coal.....	4,555 21	
	<hr/>	4,594 75

Paid for PIPE, METERS, HY-
DRANTS, etc.

To H. R. Barker, for pipe, fittings, etc.	\$3,429 69	
Chelmsford Foundry Co., for pipe, flanges, etc.....	66 80	
Crosby Steam Gage and Valve Co., for valves and flanges.....	128 00	
T. R. Garity & Co., for fittings.....	114 93	
	<hr/>	
<i>Amounts carried forward</i>	\$3,739 42	\$135,664 45

Amounts brought forward \$3,739 42 \$135,664 45

Paid for PIPE, METERS, HY-
DRANTS, ETC.:

To Sumner & Goodwin, for pipes, fittings, etc.....	609 82	
Pennichuck Water Works, for pipe..	13 29	
R. D. Wood & Co., for pipe	9,192 46	
Walworth Man'f'g Co., for pipe, taps, dies, etc.....	188 71	
Worthley, Downs & Co., for valves.	35 53	
Continental Water Meter Co., for meters.....	746 68	
W. E. Dsper & Co., for meters, labor, etc.....	2,063 93	
Henry A. Hildreth, for meter	10 00	
S. H. Jones, for meters.....	179 25	
William Kittredge, for meter.....	15 00	
Henry R. Worthington, for meters, repairing meters, etc.....	1,241 81	
Union Water Meter Co., for repairing meters.....	39 60	
Boston Machine Co., for gates, hydrants, etc.....	2,106 05	
Cole & Nichols, for castings	57 33	
City of Lawrence, for castings.....	7 66	
Pevey Bros., for castings.....	94 71	
Union Iron Foundry Co., for castings	5 81	
Boston & Maine Railroad, for transportation.....	456 85	
Boston & Lowell & Concord Railroads, for transportation.....	81 85	
Old Colony Railroad, for transportation	214 79	
	<hr/>	21,100 55

Paid for SUNDRIES:

To Appropriation for Schools, for chair-seats.....	\$ 80	
Appropriation for School Houses, for paint, varnish, and shellac.....	9 17	
Appropriation for Roads and Bridges, for services of City Engineer.....	215 00	
Appropriation for Roads and Bridges, for lumber, sand, labor, etc	38 80	
Appropriation for Paupers, for lumber.....	1 90	
	<hr/>	
<i>Amounts carried forward</i>	\$265 67	\$156,765 00

<i>Amounts brought forward</i>	\$265 67	\$156,765 00
Paid for SUNDRIES :		
To Appropriation for Police, for services of officers	7 50	
Appropriation for Fire Department, for packing hydrants, labor, etc..	568 95	
Appropriation for Sewers and Drains, for cement and brick.....	61 35	
Appropriation for Printing and Ad- vertising, for paper.....	52 80	
Appropriation for Public Buildings, for labor.....	77 63	
A. Bachelder & Co., for labor on lumber.....	60	
Badger & Holmes, for moulding and labor	3 20	
A. L. Brooks & Co., for lumber....	17 51	
A. P. Bateman, for lumber	37 40	
Howes & Burnham, for lumber and labor	329 86	
William Kelley, for windows and blinds.....	60 80	
Lowell Wood Turning Co., for mauls and handles	6 00	
M. C. Pratt & Co., for lumber.....	8 56	
Proprietors of Locks and Canals on Merrimack River, for reducers, ky- anizing lumber, etc	101 51	
Sager Ashworth & Co., for files.....	1 55	
C. E. Adams, for hardware, tools, etc	37 51	
John C. Bennett, for hardware	9 00	
H. A. Fielding, for hardware and tools.....	39 38	
H. B. Shattuck, for hardware and tools	34 20	
Frederick Taylor, for lead pipe, hard- ware, etc.....	493 51	
O. E. Averill, for blacksmithing....	39 66	
American Bolt Co., for bolts.....	10 13	
F. S. Berry, for blacksmithing.....	4 85	
Boutwell Bros., for iron.....	21 46	
Cole & Nichols, for castings	211 52	
E. M. Foster, for castings, etc.....	129 43	
T. R. Garity & Co., for valve.....	1 40	
S. H. Jones, for brass unions, etc...	9 60	
<i>Amounts carried forward</i>	\$2,642 54	\$156,765 00

Amounts brought forward..... \$2,642 54 \$156,765 00

Paid for SUNDRIES :

To Lowell Machine Shop, for castings, lumber, and labor	219 65
F. W. Proctor, for ells.....	50
Rice & Co., for wire cloth	23 22
S. C. Smith, for cap-screws.....	7 13
H. Sutcliffe & Co., for can.....	75
B. Scannell & Wholey, for iron and labor	7 94
N. J. Wier & Co., for lamp.....	30
H. H. Wilder & Co., for pipe, zinc, dipper, and packing.....	5 17
Ware & Smith, for composition....	1 50
Cahill Bros., for shoeing horse.....	9 75
J. H. Haskell, for filing saws.....	3 92
C. A. Ross, for wagon and repairing carriages.....	195 75
Buttrick & Co., for rice, salt, tub, etc.....	14 55
Boston Lead Man'f'g Co., for wire..	14 63
Chadwick Lead Works, for pig lead.	444 64
C. B. Coburn & Co., for lead, oil, spirits turpentine, varnish, felting packing, hose, brushes, etc.....	273 50
William Calderwood, for matches...	2 75
Walter Coburn & Co., for waste....	23 63
Centralville Cash Grocery, for oil...	24
W. E. Desper & Co., for water-proof paper.....	10 80
Charles H. Frost, for brooms.....	2 00
Thomas Groom & Co., for paper....	3 25
J. Gates & Sons, for pump-sucker, washers, and hose.....	69 50
S. Horn & Co., for tallow	60 66
F. J. Ladd & Co., for oil.....	69 30
William E. Livingston, for lime, ce- ment, coal, oats, corn, etc.....	192 00
Lowell Felting Mills, for felt	6 58
Lowell Rubber Co., for wading-pants and boots.....	8 55
Miller Bros., for matches and oil...	75
Nichols & Fletcher, for powder, dualin, exploders, matches, etc...	113 16
J. F. Puffer & Son., for mats.....	4 75
Stickney & Spofford, for molasses..	1 10

Amounts carried forward..... \$4,434 46 \$156,765 00

Amounts brought forward..... \$4,434 46 \$156,765 00

Paid for SUNDRIES :

To C. P. Talbot & Co., for brimstone, oxalic acid, soda ash, and potash.	8 17	
U. S. Cord Co., for linen cord.....	3 25	
U. S. and Foreign Salamander Felt- ing Co., for felting stock	15 00	
S. N. Wood & Son, for grass-seed and lawn dressing.....	14 38	
Edward N. Wood, for grass seed, etc	4 35	
S. T. Spalding, for hay.....	14 49	
A. Clement & Co., for trees.....	11 50	
T. M. Bolton & Co., for harness, collar, whip, repairing harnesses, etc.....	84 55	
J. E. Conant & Co., for horse blan- ket.....	5 37	
William L. Swett, for sleigh	95 00	
J. L. & J. G. Noyes, for difference between horses exchanged.....	50 00	
Joshua B. Morse, for sand.....	6 50	
John Burch, for brushes, seive, and labor	10 35	
Ira Hartwell, for mason work.....	42 00	
D. M. Prescott, for mason work and material.....	5 50	
Staples Bros., for drain pipe	12 19	
John W. Robinson, for repairing con- crete	3 50	
E. A. & A. T. Smith, for repairing concrete.....	3 50	
James M. Battles, for cash paid for postage stamps, rent of P. O. box, envelopes, expressing, etc.....	36 12	
H. G. Holden, for cash paid for travelling expense, stamp, etc..	36 00	
J. W. Bennett & Co., for roofing...	20 64	
D. B. Rollins & Co., for composition	6 51	
Baeheller, Dumas & Co., for blank- books, etc.....	94 60	
H. C. Church & Son, for blank- books, papers, and pencils.....	10 91	
F. P. Coggeshall, for blank-books, pencils, ink, and repairing stamp.	37 10	
W. H. Laskey, for rubber bands ...	6 56	
Marston & Prinee, for pens.....	1 50	

Amounts carried forward..... \$5,074 00 \$156,765 00

Amounts brought forward..... \$5,074 00 \$156,765 00

Paid for SUNDRIES :

To J. Merrill & Son, for blank-books, pencils, pens, ink, etc.....	12 35	
Campbell & Hanscom, for blank- books, printing, and advertising	149 40	
Citizen Newspaper Co., for advertis- ing.....	7 00	
Huse, Goodwin & Co., for advertis- ing.....	4 00	
Harrington Bros., for advertising...	7 50	
Lowell Weekly Sun, for advertising.	3 50	
Marden & Rowell, for printing and advertising.....	24 75	
Morning Mail Co., for printing and advertising.....	18 00	
Stone, Bacheller & Livingston, for printing and advertising.....	81 25	
Lowell Gas Light Co., for gas.....	28 34	
Lowell District Telephone Co., for telephone service.....	36 90	
Eastern Telephone Co., for telephone service	72 39	
Telephone Co.'s, for telephone service	42 30	
Jesse A. Viles, for treatment of horse.....	18 00	
Anson Wheeler, for treatment of horses	21 00	
Michael Murphy, for injury to horse.	50 00	
J. L. Noyes & Son, for use of horse	15 00	
Eastern Sale Stable, for carriage hire	2 00	
George L. Huntoon, for carriage hire	5 00	
E. H. Morse, for carriage hire.....	2 00	
A. H. Chase, for labor with team...	60 00	
W. P. Foye, for labor with team....	31 50	
P. Hunt, for labor with team.....	4 00	
John Hanley, for labor with team...	47 00	
John Labarge, for labor with team..	5 00	
F. S. Ladd, for labor with team....	50	
MacDonald & Ross, for labor with team.....	1 00	
O. A. Simpson, for labor with team	2 75	
Samuel Tompkins, for labor with team	148 00	
Lovejoy & Co.'s Express, for trans- portation.....	1 90	
<i>Amounts carried forward</i>	\$5,976 33	\$156,765 00

Amounts brought forward..... \$5,976 33 \$156,765 00

Paid for SUNDRIES :

To Penniman & Co.'s Express, for transportation	65	
U. S. and Canada Express, for transportation.....	5 35	
	<hr/>	5,982 33

Paid on account of HIGH SERVICE :

To Appropriation for School Houses, for lumber and labor.....	\$5 50	
Appropriation for Public Buildings, for labor.....	9 20	
Sundry persons, for labor as per pay rolls.....	655 68	
William H. Ward, for labor performed and material furnished in construction of reservoir and bank wall	6,474 62	
American Bolt Co., for bolts.....	7 01	
O. E. Averill, for blacksmithing....	9 25	
Badger & Holmes, for labor.....	85	
Boston Machine Co., for check-valve, gate and hydrants.....	341 10	
H. R. Barker, for pipe and fittings..	10 58	
Cole & Nichols, for guage.....	6 30	
H. H. Wilder & Co., for labor.....	2 00	
Henry R. Worthington, for Duplex Compound Steam Pump.....	1,800 00	
Henry R. Worthington, for valve guards and springs.....	6 12	
R. D. Wood & Co., for pipe.....	900 00	
William Reed, for stone.....	36 00	
M. C. Pratt & Co., for lumber.....	8 30	
C. B. Coburn & Co., for oil and brimstone	2 60	
George E. Evans, for lead figures..	1 44	
H. Hosford & Co., for cloth.....	95	
Nichols & Fletcher, for dualin, fuse and exploders	6 50	
S. N. Wood & Son, for rye.....	1 88	
Citizen Newspaper Co., for advertising.....	2 50	
Campbell & Hanscom, for advertising	3 12	
Harrington Bros., for advertising...	2 50	
Huse, Goodwin & Co., for advertising.....	1 00	

<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$10,295 00	\$162,747 33

Amounts brought forward \$10,295 00 \$162,747 33

Paid on account of HIGH SERVICE :

To Marden & Rowell, for advertising..	3 12	
Stone, Bacheller & Livingston, for advertising	1 88	
F. A. Parker, for building fence....	530 16	
P. Keyes & Son, for labor with team	13 50	
Albert Willett, for labor with team..	51 50	
Boston & Lowell Railroad, for trans- portation.....	2 54	
Boston & Maine Railroad, for trans- portation.....	89	
	<hr/>	*10,898 59
Whole expenditure for the year.....		\$173,645 92
Balance undrawn January 1, 1883.....		411 03
		<hr/>
		\$174,056 95

Expended in 1870.....	\$95,057 00
Expended in 1871.....	624,151 66
Expended in 1872.....	560,708 40
Expended in 1873.....	349,717 87
Expended in 1874.....	233,370 63
Expended in 1875.....	275,660 78
Expended in 1876.....	221,502 24
Expended in 1877.....	163,814 28
Expended in 1878.....	158,510 15
Expended in 1879.....	150,047 82
Expended in 1880.....	154,391 59
Expended in 1881.....	231,171 27
Expended in 1882.....	173,645 92

Total expenditure to January 1, 1883.....	\$3,391,749 61
Total receipts to January 1, 1883.....	1,068,700 64
	<hr/>
Net cost of Water Works to January 1, 1883.....	\$2,323,048 97

*To this amount add \$57,969.39, expended in 1881, making total cost of High Service \$68,867.98.

AIKEN STREET.

Balance undrawn January 1, 1882	\$3,323 40	
	<hr/>	\$3,323 40

RECEIPTS.

Received into the Treasury on account
of AIKEN STREET :

From Lowell Institution for Savings, on note dated May 1, 1882.....	\$195,000 00	
Lowell Institution for Savings, for premium on above note.....	2,925 00	
	<hr/>	197,925 00
		<hr/> <u>\$201,248 40</u>

EXPENDITURES.

Paid for SUNDRIES :

To Appropriation for Roads and Bridges for engineering and labor.....	\$5,395 20	
Appropriation for Paupers, for fuel..	7 00	
Appropriation for Sewers and Drains for labor	160 84	
Trumbull & Cheney, for bridge masonry on account of contract..	62,107 07	
Trumbull & Cheney, for extra labor and material.....	201 27	
John & Patrick O'Hearn, for labor performed and material furnished on account of contract.....	7,700 25	
	<hr/>	
<i>Amount carried forward.....</i>	\$75,571 63	

Amount brought forward..... \$75,571 63

Paid for SUNDRIES :

To Corrugated Metal Co., for labor performed and material furnished on account of contract.....	40,760 00
Cahill, Riley & Mooney, for labor performed on account of contract....	3,253 70
The United States, for use of testing machine.....	19 62
Watertown Arsenal, for use of testing machine, etc.....	10 25
John E. Cheney, for specifications, examining plans, etc.....	456 30
N. T. Staples, for services as inspector of masonry.....	219 00
George E. Evans, for cash paid for travelling expenses, postal cards, telegrams, expressage, etc.....	92 98
John C. Woodward, for cash paid for expenses of committee.....	34 85
Howes & Burnham, for lumber.....	34 09
John C. Bennett, for nails, tacks, felt and ladder.....	6 61
R. S. Clifford, for repairing steel tape.....	1 00
H. R. Barker, for pipe, couplings and labor.....	15 23
T. H. Curtis, for filing saw.....	20
Cole & Nichols, for castings.....	12
George W. Jockow, for branding-irons and inspecting timber.....	26 75
Frederick Taylor, for hardware and tools.....	17 08
Lowell Machine Shop, for steel.....	2 16
S. G. Mack & Co., for zinc and labor	1 00
A. L. Ready, for stove and pipe....	3 50
Wallingford & Callahan, for pipe and collar.....	70
Washburn & Moen Man'f'g Co., for steel wire.....	2 25
C. B. Coburn & Co., for oil, brushes, lampblack, lanterns, etc.....	5 55
H. C. Church & Son, for manilla paper and bags.....	88
H. Hosford & Co., for flannel.....	75

Amount carried forward..... \$120,536 20

Amount brought forward..... \$120,536 20

Paid for SUNDRIES :

To A. L. Kittredge, for colors.....	43
H. B. Barnes, for painting water guages.....	1 50
Thomas H. Elliott, for dory, oars, etc	12 00
Bachelor, Dumas & Co., for blank- book.....	3 50
F. P. Coggeshall, for blank-books, blotters, and ink.....	8 10
J. Merrill & Son, for blank-book and paper.....	62
A. Whitney, for blank-book	30
Boston Daily Advertiser, for advertis- ing	9 75
Citizen Newspaper Co., for advertis- ing	1 87
Campbell & Hanscom, for printing and advertising.....	64 62
C. L. Knapp & Son, for advertising	9 75
Morning Mail Co., for advertising..	2 25
Marden & Rowell, for printing and advertising	47 49
Stone, Bachelor & Livingston, for advertising	10 63
B. G. Brown, for labor with team...	53 00
Charles Clapp, for labor with team..	51 00
A. H. Chase, for labor with team...	38 00
Thomas Finnick, for labor with team.....	44 00
H. J. Keyes, for labor with team....	30 00
Thomas Mooney, for labor with team	44 00
F. H. Penniman, for labor with team	53 00
C. P. Salls, for labor with team....	24 00
O. A. Simpson, for labor with team.	25 00
S. Tompkins, for labor with team...	1 00
Boott Cotton Mills, under resolution of City Council	1,500 00
Lawrence Man'f'g Co., under resolu- tion of City Council.....	1,500 00
Mass. Cotton Mills, under resolution of City Council.....	500 00
<i>Amount carried forward</i>	\$124,572 01

Amount brought forward..... \$124,572 01

Paid for SUNDRIES :

To Merrimack Manuf'g Co., under resolution of City Council.....	1,500 00	
	<u> </u>	126,072 01
Whole expenditure for the year.....		*126,072 01
Balance undrawn January 1, 1883.....		75,176 39
		<u> </u>
		<u>\$201,248 40</u>

* To this amount add \$1,814.10, expended in 1881,—making the total expenditure on account of Aiken Street \$127,886.11.

CENTRAL BRIDGE.

Transferred from Reserved Fund.....	\$1,300 00	
	<hr/>	\$1,300 00

RECEIPTS.

Received into the Treasury on account
of CENTRAL BRIDGE :

From Brewster, Bassett & Co., for 120 City of Lowell Central Bridge bonds, dated Nov. 1, 1882.....	\$120,000 00	
Brewster, Bassett & Co., for premium on above bonds.....	2,268 00	
Appropriation for Roads and Bridges, for sundries.....	4 50	
	<hr/>	\$122,272 50
		<hr/>
		\$123,572 50
		<hr/>

EXPENDITURES.

Paid for SUNDRIES :

To Appropriation for Roads and Bridges for engineering and labor.....	\$1,143 51	
William H. Ward, for bridge mason- ry, per contract.....	18,315 89	
William H. Ward, for platform for engines.....	60 00	
Howes & Burnham, for lumber.....	3 40	
O. E. Averill, for blacksmithing....	3 55	
H. R. Barker, for pipe, fittings, labor etc	60 15	
	<hr/>	
<i>Amount carried forward.....</i>	\$19,586 50	

Amount brought forward..... \$19,586 50

Paid for SUNDRIES :

To Buff & Berger, for steel tape, and reading glass.....	11 50	
Cole & Nichols, for castings, etc....	6 00	
D. Lovejoy & Son, for augur.....	5 35	
S. G. Mack & Co., for pipe and pans.....	2 25	
Frederick Taylor, for hardware.....	22 88	
Washburn & Moen Manfg. Co., for steel tape.....	3 00	
F. P. Coggeshall, for blank books..	1 75	
George E. Evans, for cash paid for travelling expenses, postage stamps and telegrams.....	33 21	
George Runels, for cash paid for ex- penses of committee.....	43 01	
Campbell & Hanscom, for advertis- ing.....	11 42	
Citizen Newspaper Co., for adver- tising.....	8 25	
George H. Frost, for advertising....	7 20	
Forbes Lith. Manf'g Co., for printing bonds.....	47 50	
Huse, Goodwin Co., for printing....	46 25	
Marden & Rowell, for advertising...	9 63	
Morning Mail Co., for printing and advertising.....	46 13	
	<hr/>	19,891 83
Whole expenditure for the year.....		\$19,891 83
Transferred to Appropriation for Health		1,300 00
Balance undrawn January 1, 1883.....		102,380 67
		<hr/>
		<u>\$123,572 50</u>

NEW BUILDINGS AT CITY FARM.

RECEIPTS.

Received into the Treasury on account
of NEW BUILDINGS AT
CITY FARM :

From Lowell Institution for Savings, on note dated June 9, 1882.....	\$60,000 00	
Lowell Institution for Savings, for premium on above note.....	1,575 00	
	<hr/>	<u>\$61,575 00</u>

EXPENDITURES.

Paid for SUNDRIES :

To Appropriation for Roads and Bridges for engineering.....	\$45 20
Appropriation for Fire Department, for pumping water from cistern....	10 00
Appropriation for Water Works, for pipe, lead, and labor.....	69 58
Keay & Griffin, for labor performed and materials furnished, as per contract.....	26,774 00
Keay & Griffin, for extra labor.....	62 75
Merrill & Cutler, for plans, specifi- cations, etc.....	1,458 50
F. M. Merrill, for labor.....	10 00
A. B. Drown, for services as super- intendent.....	410 00
Henry Runels, for services as super- intendent.....	36 00
T. J. McDuffy, for stone, labor, etc.	117 50
<i>Amount carried forward.....</i>	<hr/> \$28,993 53

Amount brought forward..... \$28,993 53

Paid for SUNDRIES :

To Scannell & Wholey, for iron rods, etc.....	17 76	
Staples Bros., for pipe.....	14 19	
Campbell & Hanscom, for advertising	5 25	
Citizen Newspaper Co., for advertis- ing.....	4 50	
Huse, Goodwin & Co., for advertis- ing.....	2 00	
Marden & Rowell, for advertising...	5 63	
Stone, Bacheller & Livingston, for advertising.....	5 25	
Harrington Bros., for advertising...	7 00	
		29,055 11
Whole expenditure for the year.....		\$29,055 11
Balance on hand January 1, 1883.....		32,519 89
		<u>\$61,575 00</u>

STATE AID.

For Disabled Soldiers and Sailors and
their Families, and for the Families
of the Slain, under an act of the
Legislature of the Commonwealth,
chapter 192, approved May 4, 1877,
and previous Acts :

Due from Commonwealth, Jan. 1, 1882.. \$9,044 57

\$9,044 57

The same amount is due from the Com-
monwealth, January 1, 1883.

STATE AID.

For Disabled Soldiers and Sailors and
their Families, and the Families of
Deceased Soldiers and Sailors, under
an Act of the Legislature of the Com-
monwealth, chapter 301, approved
April 30, 1879 :

Balance undrawn January 1, 1882	\$2,520 57	
Appropriated and assessed in 1882	8,000 00	
	<hr/>	\$10,520 57

RECEIPTS.

Received into the Treasury on accounts
of STATE AID :

From P. McNamara, for overdraft	\$6 00	
E. Huggins, for overdraft	8 00	
Timothy Harrington, for overdraft	3 00	
Commonwealth, for reimbursement		
of State Aid	10,711 50	
	<hr/>	10,728 50
		<hr/>
		\$21,249 07
		<hr/> <hr/>

EXPENDITURES.

Paid sundry persons during the year 1882	\$10,787 25	
	<hr/>	
Whole expenditure for the year		\$10,787 25
Balance undrawn January 1, 1883		10,461 82
		<hr/>
		\$21,249 07
		<hr/> <hr/>

AID FOR INDIGENT SOLDIERS AND SAILORS.

For Indigent Soldiers and Sailors, under
chapter 252 of the acts of the Legis-
lature of the Commonwealth, ap-
proved April 23, 1879 :

Balance undrawn January 1, 1882	\$4,542 40	
Appropriated and assessed in 1882.....	6,000 00	
	<hr/>	10,542 40

RECEIPTS.

Received into the Treasury on account
of INDIGENT SOLDIERS AND
SAILORS :

From C. Hogan, for overdraft.....	\$4 00	
J. Shields, for overdraft.....	8 00	
A. J. Hayden, for overdraft	18 00	
Michael Sheridan, for overdraft...·	6 00	
Thomas Moran, for overdraft.....	8 00	
John C. Corr, for overdraft.....	4 00	
John F. Glynn, for overdraft.....	6 00	
Patrick Garity, for overdraft	6 00	
William Nevil, for overdraft	8 00	
Commonwealth, for reimbursement of aid for Indigent Soldiers and Sailors	5,199 00	
	<hr/>	\$5,267 00
		<hr/> <hr/>
		\$15,809 40

EXPENDITURES.

Paid sundry persons for aid in 1882.....	\$9,285 50	
	<hr/>	
Whole expenditure for the year.....		\$9,285 50
Balance undrawn January 1, 1883.....		\$6,523 90
		<hr/>
		<u>\$15,809 40</u>

CITY DEBT.

RECEIPTS.

Received into the Treasury on account
of CITY DEBT:

From Commissioners of Sinking Funds, from the fund for the reduction of the Ordinary City Debt.....	\$55,000 00	
Transferred from Appropriation for Abatement of Taxes.....	10,000 00	
	<hr/>	<u>\$65,000 00</u>

EXPENDITURES.

Paid Salem Savings Bank, a note which matured August 5, 1882.....	\$25,000 00	
Lowell Institution for Savings, a note which matured Sept. 1, 1882.....	30,000 00	
Lowell Five Cent Savings Bank, a note which matured Sept. 13, 1882	\$10,000 00	
	<hr/>	<u>\$65,000 00</u>

INTEREST.

Balance undrawn January 1, 1882.....	\$7,306 26	
Appropriated and assessed for 1882.....	33,000 00	
	<hr/>	\$40,306 26

RECEIPTS.

Received into the Treasury on account
of INTEREST :

From Appleton National Bank, for interest on daily balances from Novem- ber 1, 1881, to October 1, 1882.	\$2,533 83	
Sundry persons, for interest on taxes	1,224 01	
Perkins, Dupee & Co., for accrued interest on Intercepting Sewer Loan bonds.....	88 89	
William Taylor, for accrued inter- est on Intercepting Sewer Loan bonds.....	15 33	
	<hr/>	3,862 06
		<hr/> <hr/>
		\$44,168 32

EXPENDITURES.

Paid on account of INTEREST :

To City Institution for Savings.....	\$ 6,225 00
Lowell Institution for Savings.....	22,384 25
Lowell Five Cent Savings Bank....	2,175 00
Salem Savings Bank.....	1,625 00
Trustees of the Estate of Thomas Nesmith.....	1,560 00
	<hr/>
<i>Amount carried forward.....</i>	\$33,969 25

Amount brought forward..... \$33,969 25

Paid on account of INTEREST :

To Trustees of the Estate of Jonathan Tyler.....	600 00
Appleton National Bank, on temporary loans.....	3,782 02
Lowell Institution for Savings, on temporary loan.....	914 30

Whole expenditure for the year.....	\$39,265 57
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Balance undrawn January 1, 1883.....	4,902 75
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\$44,168 32

NATIONAL BANK TAX.

Balance undrawn January 1, 1882	\$199 78	
Assessed on stock in National Banks owned by non-residents.....	20,214 30	
	<hr/>	<u>\$20,414 08</u>

EXPENDITURES.

Paid Commonwealth, National Bank Tax of 1882.....	\$19,829 26	
		<hr/>
		\$19,829 26
Balance undrawn January 1, 1883.....		584 82
		<hr/>
		<u>\$20,414 08</u>

STATE TAX.

Assessed in 1882.....	\$42,000 00	
	<hr/>	\$42,200 00
		<hr/>

EXPENDITURES.

Paid Commonwealth State Tax of 1882..	\$42,200 00	
	<hr/>	\$42,200 00
		<hr/>

COUNTY TAX.

Assessed in 1882.....	\$15,904 08	
	<hr/>	\$15,904 08
		<hr/>

EXPENDITURES.

Paid County of Middlesex, County Tax of 1882	\$15,904 08	
	<hr/>	\$15,904 08
		<hr/>

TAXES.

The amount of Taxes assessed on the Polls, and on the Real and Personal Estate within the City of Lowell, for the year 1882, was as follows :

VALUATION OF, AND TAX ON, REAL AND PERSONAL PROPERTY.

Valuation.	Rate.	Tax.
Of Real Estate, \$32,498,805 00	Tax \$15 60 per \$1000	\$506,981 42
Personal Estate, 13,920,406 51	“ “ “ “	217,158 26
Total valuation, <u>\$46,419,211 51</u>		<u>\$724,139 68</u>

Number of polls, 15,612, at \$2.00 each..	31,224 00
Number of polls, 37, at 50 cents each...	18 50
Bank Tax assessed on shares of stock which were not included in the valuation of the city.....	20,214 30
Total amount of Taxes assessed in 1882.	<u>\$775,596 48</u>

APPROPRIATED AND ASSESSED IN 1882.

For City Appropriations.....	680,500 00
State Tax.....	42,200 00
County Tax.....	15,904 08
Tax on shares in National Banks not included in the valuation of the city	20,214 30
Overlays	16,778 10
	<u>\$775,596 48</u>

TAXES.

	Due Jan. 1, 1882, and assessed in '82.	Abated in 1882.	Collected in 1882.	Due Jan. 1, 1883.
Taxes of 1879,	\$ 68 45	\$ 4 00	\$ 25 90	\$ 38 55
Taxes of 1880,	8,752 55	6,835 22	1,809 33	108 00
Taxes of 1881,	33,589 87	62 53	23,999 31	9,528 03
Taxes of 1882,	775,596 48	4,759 23	721,934 68	48,902 57
Totals,	<u>\$818,007 35</u>	<u>\$11,660 98</u>	<u>\$747,769 22</u>	<u>\$58,577 15</u>

ABATEMENT OF TAXES.

Balance undrawn January 1, 1882.....	\$25,227 28	
Overlays assessed in 1882.....	16,778 10	
		<u>\$42,005 38</u>

ABATEMENTS AND TRANSFER.

Abated by Assessors on Taxes of 1879..	\$ 4 00	
Abated by Assessors on Taxes of 1880..	6,835 22	
Abated by Assessors on Taxes of 1881..	62 53	
Abated by Assessors on Taxes of 1882..	4,759 23	
		<u>\$11,660 98</u>
Transferred to Appropriation for City Debt.....		10,000 00
		<u>\$21,660 98</u>
Balance undrawn January 1, 1883.....		20,344 40
		<u>\$42,005 38</u>

TEMPORARY LOANS.

RECEIPTS.

Received into the Treasury on account of TEMPORARY LOANS :		
From Lowell Institution for Savings....	\$40,000 00	
Appleton National Bank.....	122,000 00	
		<u>162,000 00</u>

PAYMENTS

Paid Lowell Institution for Savings.....	\$40,000 00	
Appleton National Bank.....	122,000 00	
		<u>\$162,000 00</u>

SINKING FUNDS.

SINKING FUND FOR THE REDUCTION OF THE WATER DEBT.

Appropriated and assessed in 1882.....	\$25,000 00	
	<hr/>	<u>\$25,000 00</u>
Paid Commissioners of Sinking Funds...	\$25,000 00	
	<hr/>	<u>\$25,000 00</u>

SINKING FUND FOR THE PAYMENT OF THE LOAN OF 1876.

Appropriated and assessed in 1882.....	4,000 00	
	<hr/>	<u>\$4,000 00</u>
Paid Commissioners of Sinking Funds..	\$4,000 00	
	<hr/>	<u>\$4,000 00</u>

SINKING FUND FOR THE PAYMENT OF THE LOAN OF 1880.

Appropriated and assessed in 1882.....	\$4,000 00	
	<hr/>	<u>\$4,000 00</u>
Paid Commissioners of Sinking Funds....	\$4,000 00	
	<hr/>	<u>\$4,000 00</u>

CITY HALL BUILDING LOT SINKING FUND.

Appropriated and assessed in 1882.....	\$7,000 00	
	<hr/>	<u>\$7,000 00</u>

Paid Commissioners of Sinking Funds...	\$7,000 00	
		<u>\$7,000 00</u>

AIKEN STREET SINKING FUND.

Appropriated and Assessed in 1882.....	\$16,000 00	
		<u>16,000 00</u>
Paid Commissioners of Sinking Funds...	\$16,000 00	
		<u>\$16,000 00</u>

SINKING FUND FOR HIGH SERVICE WATER SUPPLY.

Appropriated and assessed in 1882.....	\$1,800 00	
		<u>\$1,800 00</u>
Paid Commissioners of Sinking Funds...	\$1,800 00	
		<u>\$1,800 00</u>

FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

Received from Commonwealth, on account of Corporation Tax of 1881	\$4,224 92	
Received from Commonwealth, on account of Corporation Tax of 1882	44,484 43	
Received from Commonwealth, on account of National Bank Tax of 1882...	4,444 74	
		<u>\$53,154 09</u>
Paid Commissioners of Sinking Funds...	\$53,154 09	
		<u>\$53,154 09</u>

The value of the several Sinking Funds which apply to the reduction of the Water Debt, January 1, 1883, as reported by the Commissioners of Sinking Funds, is as follows :

City of Lowell Water Loan Sinking Fund	\$327,250 76	
Sinking Fund for the reduction of the loan of 1876.....	\$27,395 61	
Sinking Fund for High Service Water Supply.....	1,813 15	
		<u></u>
<i>Amount carried forward.....</i>		\$356,459 52

Amount brought forward.... \$356,459 52

The value of the several Sinking Funds which apply to the reduction of the Ordinary City Debt, January 1, 1883, as reported by the Commissioners of Sinking Funds, is as follows :

City Hall Building Lot Sinking Fund....	\$22,202 83	
Sinking Fund for the payment of the loan of 1880.....	8,210 60	
Aiken Street Sinking Fund.....	16,013 47	
Fund for the payment of the Ordinary City Debt.....	70,140 01	
	<hr/>	116,566 91
Total value of Sinking Funds, January 1, 1883.....		<hr/> \$473,026 43 <hr/>

The value of the Hapgood Wright Centennial Trust Fund, January 1, 1883, was	<hr/> \$1,368 79 <hr/>
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CARNEY MEDAL FUND.

*Received of James G. Carney, Esq., in 1858 and 1859, the amount of two hundred dollars, which is to remain a perpetual debt of the City forever; the interest to be applied in payment for the "Carney Medals" to the departments of the High School (annually)	\$200 00	
	<hr/>	\$200 00
Undrawn January 1, 1883		<hr/> \$200 00 <hr/>

* One hundred dollars was donated August 24, 1858, and accepted by the City Council, September 14, 1858, and one hundred dollars additional, July 16, 1859, and accepted July 26, 1859. For the information of the citizens of Lowell, the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may be found.

DUE FROM THE CITY ON WATER LOAN.

DECEMBER 31, 1882.

Date of Notes and Bonds.	To Whom Payable.	Amount.	Per Cent.	Interest, when due.	Annual Interest.	Notes and Bonds, when due.
1870, Nov. 1,	Merchants' National Bank.....	\$500,000 00	6	Bonds.		
1870, Nov. 1,	Railroad National Bank.....	150,000 00	6	Bonds,	\$30,000 00	1890, Nov. 1.
1870, Nov. 1,	City Institution for Savings.....	100,000 00	6	Bonds,	9,000 00	1890, Nov. 1.
1870, Nov. 1,	Mechanics' Savings Bank.	50,000 00	6	Bonds,	6,000 00	1890, Nov. 1.
1870, Nov. 1,	Lowell Five Cent Savings Bank.....	46,000 00	6	Bonds,	3,000 00	1890, Nov. 1.
1870, Nov. 1,	Worcester County Institution for Savings...	30,000 00	6	Bonds,	2,760 00	1890, Nov. 1.
1870, Nov. 1,	Marlborough Savings Bank, Marlborough...	10,000 00	6	Bonds,	1,800 00	1890, Nov. 1.
1870, Nov. 1,	Lowell Water Loan Sinking Fund.....	4,000 00	6	Bonds,	600 00	1890, Nov. 1.
1870, Nov. 1,	William Shepard	227,000 00	6	Bonds,	240 00	1890, Nov. 1.
1870, Nov. 1,	Brewster, Sweet & Co.	160,000 00	6	Bonds,	13,620 00	1890, Nov. 1.
1870, Nov. 1,	G. T. Williams.....	8,000 00	6	Bonds,	9,600 00	1890, Nov. 1.
1870, Nov. 1,	R. L. Day & Cobb.....	5,000 00	6	Bonds,	480 00	1890, Nov. 1.
1870, Nov. 1,	Frederick Bailey.....	3,000 00	6	Bonds,	300 00	1890, Nov. 1.
1870, Nov. 1,	E. G. Woodman.....	2,000 00	6	Bonds,	180 00	1890, Nov. 1.
1870, Nov. 1,	Lucian H. Read.....	2,000 00	6	Bonds,	120 00	1890, Nov. 1.
					120 00	1890, Nov. 1.

1870, Nov. 1, John F. Kimball.....	1,000 00	6 Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1870, Nov. 1, Weld Spaulding.....	1,000 00	6 Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1870, Nov. 1, James Harper.....	1,000 00	6 Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1871, May 1, Lowell Institution for Savings.....	200,000 00	6 City's Note,	May 1 and Nov. 1,	12,000 00	1891, May 1.
1873, June 14, Lowell Institution for Savings.....	100,000 00	6 $\frac{6}{10}$ City's Note,	June 14 and Dec. 14,	6,600 00	1893, June 14.
1874, Oct. 14, City Institution for Savings.....	50,000 00	6 $\frac{1}{2}$ City's Note,	April 14 and Oct. 14,	3,250 00	1894, Oct. 14.
1874, Nov. 12, Lowell Institution for Savings.....	100,000 00	6 $\frac{1}{2}$ City's Note,	May 12 and Nov. 12,	6,500 00	1894, Nov. 12.
1876, June 15, Commonwealth of Massachusetts.....	50,000 00	5 City's Note,	June 15 and Dec. 15,	2,500 00	1886, June 15.
1881, Nov. 1, Blake Bro's & Co., (15 notes \$5,000 each.)	75,000 00	4 City's Notes,	May 1 and Nov. 1,	3,000 00	1911, Nov. 1.
	\$1,875,000 00			\$111,850 00	

NOTES AND BONDS DUE FROM THE CITY.

DECEMBER 31, 1882.

Date of Notes.	To Whom Payble.	Amount.	Per Cent.	Interest, when due.	Annual Interest.	Notes, when due.
1862, Nov. 3,	City Institution for Savings.....	\$30,000 00	5½	May 3 and November 3,	\$1,650 00	1887, Nov. 3.
1864, April 1,	City Institution for Savings.....	38,000 00	5¼	April 1 and October 1,	1,995 00	1884, April 1.
1870, June 1,	City Institution for Savings.....	20,000 00	6 ⁴⁵ / ₁₀₀	June 1 and December 1,	1,290 00	1883, October 1.
1870, Aug. 1,	City Institution for Savings.....	20,000 00	6 ⁴⁵ / ₁₀₀	February 1 and August 1.	1,290 00	1885, October 1.
*1871, Mar. 6,	Bequest of Thomas Nesmith.....	25,000 00	6	March 6 and Sept. 6,	1,500 00	Perpetual Debt.
+1871, Apr. 10,	Bequest of Thomas Nesmith.....	1,000 00	6	April 10 and October 10,	60 00	Perpetual Debt.
1873, Oct. 17,	Lowell Institution for Savings.....	30,000 00	7	April 17 and October 17,	2,100 00	1883, October 17.
1874, Aug. 7,	Lowell Institution for Savings.....	100,000 00	6½	February 7 and August 7,	6,500 00	1894, August 7.
1874, Nov. 25,	Lowell Five Cent Savings Bank.....	25,000 00	6½	May 25 and Nov. 25,	-	1,625 00 1894, Nov. 25.
1875, July 1,	Lowell Institution for Savings.....	10,000 00	6	January 1 and July 1,	600 00	1885, July 1.
+1878, May 10,	Bequest of Jonathan Tyler.....	10,000 00	6	May 10 and Nov. 10,	600 00	Perpetual Debt.
1880, Jan. 2,	Lowell Institution for Savings.....	85,300 00	4¾	January 2 and July 2,	4,051 75	1890, January 2.
1880, Mar. 25,	Lowell Institution for Savings.....	50,000 00	4 ²⁹ / ₁₀₀	March 25 and Sept. 25,	2,145 00	1890, March 25.
1881, Dec. 1,	Lowell Institution for Savings.....	5,000 00	4	June 1 and Dec. 1,	200 00	1891, Dec. 1.
1882, May 1,	Lowell Institution for Savings.....	195,000 00	4	May 1 and Nov. 1,	7,800 00	1892, May 1.

1882, June 9,	Lowell Institution for Savings.....	60,000 00	4	June 9 and Dec. 9,	2,400 00	1892, June 9.
1882, Sept. 1,	Lowell Institution for Savings	30,000 00	4	March 1 and Sept. 1,	1,200 00	1892, Sept. 1.
1882, Oct. 2,	Perkins, Dupee & Co., (bonds).....	50,000 00	4	April 2 and October 2,	2,000 00	1902, October 2.
1882, Oct. 2,	William Taylor (bonds).....	6,000 00	4	April 2 and October 2,	240 00	1902, October 2.
1882, Nov. 1,	Brewster, Bassett & Co. (bonds).....	120,000 00	4	May 1 and Nov. 1,	4,800 00	1892, Nov. 1.
1882, Nov. 1,	Appleton National Bank.....	40,000 00	4	Interest paid,		1883, Nov. 1.
	Amount of City Debt (ordinary).....	\$950,300 00		Int. on ordinary city debt.	\$44,046 75	
	Amount of Water Loans.....	1,875,000 00		Int. on Water Loan,	111,850 00	
	Total amount of City Debt	\$2,825,300 00		Total int. on city debt,	\$155,896 75	

*Interest on the same (for the poor).

†Interest on the same (High Street Church).

‡Interest on the same (for the poor).

DEBTS DUE THE CITY.

JANUARY 1, 1883.

For Taxes of 1879	\$	38 55
Taxes of 1880		104 76
Taxes of 1881.....		9,528 03
Taxes of 1882.....		48,902 57
Sidewalk assessments.....		1,516 22
Sewer assessments.....		14,818 12
Water rates, service pipe, etc		13,431 19
Execution against Horace Howard..		48 21
State Aid		19,831 82
Aid to Indigent Soldiers and Sailors		4,642 75
Rent of Armories		800 00
Estate of John Mangin.....		402 00
John G. Sinclair		55 00
George E. Mitchell.....		53 50
William T. Fuller		55 80
William Manning.....		111 15
Town of Chelmsford.....		100 87
Book accounts.....		735 35
		<hr/>
		<u>\$115,175 89</u>

REAL ESTATE OWNED BY THE CITY.

City Government Building.....	\$30,000 00
Huntington and Jackson Halls	46,200 00
Market House	56,000 00
City Scales, rear of Market House.....	1,000 00
Shed, rear of Market House.....	150 00
High School-house on Anne and Kirk streets	45,300 00
Bartlett school-house on Clark street.....	13,000 00
Edson school-house on Highland street	17,400 00
Colburn school-house on Lawrence street.....	20,000 00
Franklin school-house on Branch street	20,000 00
Moody school-house on East Merrimack street.....	12,000 00
Green school-house on Merrimack street.....	105,800 00
Mann school-house on Lewis street.....	13,500 00
Varnum school-house on Myrtle street.....	17,000 00
Highland school-house on Pine and Wilder streets	38,000 00
Butler school-house on Gorham street (unfinished)....	25,000 00
Primary school-house on Powell street.....	7,000 00
Primary school-house on Race street.....	3,400 00
Primary school-house on Elliott street.....	6,000 00
Primary school-house on Church street.....	5,000 00
Primary school-house on School street.....	6,700 00
Primary school-house on High street.....	3,600 00
Primary school-house on Carter street.....	7,500 00
Primary school-house on Charles street.....	2,500 00
Primary school-house on Fayette street.....	5,500 00
Primary school-house on Rock street.....	2,100 00
Primary school-house on Cabot street	3,250 00
Primary school-house on West-Sixth street.....	10,000 00
Primary school-house on River street.....	5,500 00
Primary school-house on Ames street.....	7,700 00
Primary school-house on Dover street.....	7,700 00
Primary school-house on Tenth street	7,700 00
Primary school-house on Cheever street.....	3,476 00
<i>Amount carried forward.....</i>	<i>\$554,976 00</i>

<i>Amount brought forward</i>	\$554,976 00
Primary school-house on London street.....	3,255 00
Primary school-house on Chapel street.....	5,400 00
Primary school-house on Central and Chapel streets....	9,000 00
Primary school-house on Howard street.....	4,000 00
Primary school-house on Worthen street....	26,000 00
Primary school-house on Central street.....	21,200 00
Primary school-house on Common street.	34,000 00
Primary school-house on High street.....	15,000 00
Primary school-house on Agawam street.....	6,000 00
Primary school-house on Varnum avenue.....	500 00
Primary school-house on Mammoth avenue.....	3,000 00
Primary school-house at Middlesex Village.....	3,000 00
Primary school-house on Kirk street.....	28,000 00
Primary school-house on Grand street (unfinished)....	3,000 00
Hose carriage-house on Fayette street.....	3,100 00
Hose carriage-house on Fletcher street.....	13,640 00
Hose carriage-house on Central street.....	3,700 00
Hose carriage-house on Warren street.....	2,500 00
Engine-house and ward-room on Branch street.....	17,784 00
Engine-house and ward-room on Fourth street.....	13,000 00
Hook-and-Ladder-house, ward-room, carpenter shop, and armory on Middle street.....	21,000 00
Double Engine-house on Middle street.....	14,500 00
Engine-house on Gorham street.....	13,200 00
Engine-house at Ayer's City.....	500 00
Almshouse and City Farm.....	25,000 00
House for Chaplain at City Farm.....	2,500 00
House for aged people at City Farm.....	2,400 00
Pest-house at City Farm.....	2,000 00
Lands and buildings on Fletcher street.....	3,500 00
Lands and buildings on Fletcher, Cross, and Lagrange streets, and Broadway.....	51,000 00
Public landing, rear of Market House, exclusive of land set off by Locks and Canals Co.....	1,200 00
Lot of land on Chelmsford street.....	1,600 00
Lot of land on Fletcher and Whiting streets.....	1,150 00
Lot of land on Middle street.....	10,600 00
Lot of land on Tenth street.....	5,000 00
Lot of land on First street.....	190 00
North Common.....	17,000 00
South Common.....	23,300 00
Mount Vernon Park.....	2,000 00
Belvedere Park.....	2,300 00
City Hall Building Lot.....	85,300 00
	<hr/>
	<u>\$1,055,295 00</u>

WATER WORKS.

The real estate and personal property, belonging to the
city, occupied and used by the Water Works, net
cost to January 1, 1883. \$2,323.048 97

BURIAL GROUND OWNED BY THE CITY.

No. 1 Burial Ground, on School street.
No. 2 Burial Ground, on Gorham street.
Edson Cemetery, on Gorham street.

PERSONAL PROPERTY OWNED BY THE CITY.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF HORACE G. HOLDEN, SUPERINTENDENT OF WATER WORKS, JANUARY 1, 1883.

PIPE AND SPECIALS.

DIAMETER IN INCHES.....	4	6	8	10	12	16	20	24	30
Lengths ..	.....	13	69	30	97	5	19	7	15
Cut pieces, whole length in feet.....	2	3	.....	1	.....	1	.....	30	.....
Second-hand, in feet.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Curves	11	29	22	2	16	4	11	3	4
Sleeves	7	4	12	4	20	10	1	8	5
Half sleeves.....	.....	.....	.....	.....	.....	.....	.....	7	1
Caps	9	5	37	.....	18	3	1	1	.....

Diam. in inches	4x4	6x4	6x6	8x6	8x8	10x6	12x6	12x8	12x12	16x12	16x6	16x8	16x16	20x12	20x16
3-Ways	....	6	22	14	4	2	21	8	.....	.....	2	1	.....	3	.....
4-Ways	1	....	13	7	7	....	9	2	2	3	1	....	1	.....	.....
Reducers,	....	8	....	14	....	....	8	5	.....	1	.....	.....	.....	.....	.....

4-Ways.—1 2x1½-inch, 1 2x1-inch, 2 2x¾-inch, 1 1½x1-inch, 16 1x1-inch, 11 1¾x-inch, 35 ¾-inch. **3-Ways.**—3 2x2-inch, 7 2x1½-inch, 5 1½x¾-inch, 2 1½x1-inch, 8 1½x¾-inch, 3 1½x1-inch, 7 1-inch, 9 1-inch. **Elbows.**—5 2-inch, 9 1½-inch, 175 ¾-inch, 5 ½-inch, 11 1¼-inch, 23 1x¾-inch, 1 2x1-inch, 16 1½-inch. **Turns.**—7 1-inch, 9 ¾-inch. **Wrought Iron Pipe.**—10 feet 2½-inch, 20 feet 2-inch, 75 feet 1½-inch, 100 feet 1-inch, 100 feet ¾-inch, 30 feet ¼-inch. **Lead Connections.**—2 2-inch, 10 1-inch, 15 ¾-inch, 10 ½-inch, for cement pipe, 14 ¾-inch for cement pipe, 11 ⅝-inch for cement pipe. **Corporation Cocks.**—30 1-inch, 6 ¾-inch, 17 ⅝-inch, 9 1-inch for cement pipe, 13 ¾-inch for cement pipe, 11 ⅝-inch for cement pipe. **Stop and Waste Cocks.**—1 1½-inch, 31 1-inch, 6 ¾-inch, 17 ¾-inch old style. **Brass Unions.**—41 1-inch, 7 ⅝-inch. **Iron Unions.**—3 1-inch, 150 ¾-inch, 2 1½-inch, 5 2-inch. **Sockets.**—6 1½-inch, 26 1-inch, 17 ⅝-inch. **Plugs.**—1 1½-inch, 16 1-inch, 18 ¾-inch, 10 ½-inch. **Couplings.**—1 2½-inch, 45 2-inch, 29 1½-inch, 2 1¼-inch, 39 1-inch, 118 ¾-inch. **Bushings.**—1 2x1½-inch, 17 1x¾-inch. **Sundries.**—2 derricks, 1 pipe testing machine, 3 tool boxes, 48 sidewalk boxes, 6 iron sidewalk boxes, 2 cords wood, 1 combination fountain, 4 lead pots, 2 furnaces, 2 tons hay, 11 work benches, 1 large map of main pipe, 1 10-foot ladder, 1 coal stove, 1 coal hod, 2 framing chisels, 2 zinc pumps, 1 counter scale, 4 tool chests, 4 chairs, 1 12-foot ladder, 1 apparatus for testing meters, 1 copper force pump, 3 tapping machine, 4 brooms, 7 galvanizers, 6 iron buckets, 1 keg 10d. nails, 1 keg 20d. nails, 2 wagon wrenches, 36 assorted wrenches, 12 monkey wrenches, 8 rammers, 3 paving mauls, 33 shovels, 75 picks, 3 hoes, 8 draught chains, 1 bbl. cement, 1 bbl. white clay, 2 snow shovels, 25 pick-handles, 9 crowbars, 60 feet rubber hose, 1 hose reel, 1 copper goose neck, 2 brass reducers, 2 portable closets, 13 lanterns, 1 gross lamp wicks, 4 hand saws, 2 buck saws, 1 saw horse, 1 leather tool bag, 1 tin match safe, 30 calking sets, 3 nail hammers, 8 striking hammers, 2 paving hammers, 2 stone hammers, 3 sledge hammers, 4 rubber connections, 1 fore-plane, 65 feet tile drain pipe, 250 sidewalk caps, 3 pairs rubber boots, 1 pair rubber wading pants, 200 feet canvas hose, 20 iron lug-straps, 250 lbs. iron bolts, 1 keg spikes, 26 iron valves, 9 rubber packings, 3 solder furnaces, 2 sprinkling pots, 2 iron wood mallets, 3 soldering irons, 8 assorted files, 12 gravel screens, 5 hanging irons for bridges, 2 3-foot screws, 1 bale sand bags, 1 machine for cement-lining pipe, 10 iron bands for pipe, 5 lbs. cotton waste, 6 hydrant dippers and chains, 1 press drill, 4 washer cutters, 1 grindstone, 300 lbs. iron, 1 set blacksmith tools, 9 screw drivers, 10 lbs. iron

washers, 30 lbs. assorted nuts, 6 calking hammers, 100 lbs. brass hinges, 1 set steel numbers, 1 lathe dog, 1 foot lathe, 1 universal chuck, 2 hatchets, 2 axes, 2 brass faucets, 30 brass seals, 2 ratchet dies, 814 lbs. steel in drills, 6 scrapers for blasting, 8 pipe wedges, 2 yarning irons, 1 sieve, 1 ratchet cutter, 4 pipe vises, 2 iron buckets for testing meters, 12 cold chisels, 1 bit stock, 3 bits, 3 large lead ladles, 5 sling ropes, 4 dies, 3 die plates, 13 pipe-tongs, 2 pipe cutters, 2 trowels, 8 gate screws, 7 hydrant screws, 2 iron rakes, 2 square point shovels, 8 wood plugs for main pipe, 5 lbs. shims and wedges, 1 root axe, 1 dualin pot, 1000 lbs. iron rods, 1 10-gallon can, 1 5-gallon can, 1 2-gallon can, 1 1-gallon can, 3 $\frac{1}{2}$ -gallon cans. 4 1-quart measures, 1 4-quart wood measure, 1 tunnel, 2 desks, 1 40-foot leather belt, 1 blacksmith shop, 1 work shop, 1 carriage house, 1 stable, 1 shed for storage, 1 grain box, 1 horse, 3 harnesses, 1 canvas horse cover, 2 horse blankets, 2 surcingles, 1 halter, 1 horse brush, 2 dusters, 1 carriage cover, 3 forks, 2 wagon jacks, 1 pung, 2 express wagons, 25 1-inch union nipples, 6 $\frac{3}{4}$ -inch union nipples, 51 cut glands for meters, 10 ends to Worthington meter, 1 surface plate, 2 sheets emery cloth, 3 sets packing patterns, 13 Worthington meter indications, 5 lbs. leather, 17 piston rods for meters, 1 wire brush, 2 oil pans, 1 oil brush, 1 indicator for Desper meter, 1 brass lantern, 1 brass lamp, 2 siphons with pipe attached, 125 feet block tin tubing attached to force pump, 1 solder pot and mould, 1 pair pliers, 1 pair cut nippers, 2 valves and valve seats for Worthington meter, 5 hard packings for meters, 1 keg blasting powder, 6 hammer handles, 1 16-foot straight-edge, 9 steel points, 2000 lbs. lead, 3 sets blocks, 1 fall rope, 6 tag ropes, 2 framing squares, 1 iron tamping bar, 1 stop gate wheel, 15 1-inch caps, 17 $\frac{3}{4}$ -inch caps, 8 $\frac{1}{2}$ -inch caps, 2 gate frames, 2 gate covers, 3 gate covers, old style, 7 hydrant frames, 11 hydrant covers, 2 hydrant covers, old style, 2 hydrant frames, old style, 2 2-inch rotary meters, second-hand, 1 1 $\frac{1}{2}$ inch rotary, second-hand, 3 1-inch rotary, second-hand, 1 $\frac{3}{4}$ -inch rotary second-hand, 6 $\frac{5}{8}$ -inch rotary, second-hand 1 $\frac{5}{8}$ -inch Ball & Fitts, second hand, 13 $\frac{5}{8}$ -inch Desper meters, 2 2-inch Worthington meters, 1 iron tube pump and boring machine. The above named property is valued at \$17,000.00.

TOOLS AT FILTER INLET.

2 iron-tooth rakes, 11 shovels, 1 rammer, 1 axe, 2 ice-chisels, 1 gate-wrench, 1 nail hammer, 1 pick, 2 brooms, 1 wheelbarrow. The above property is valued at \$20.00.

TOOLS AT RESERVOIR.

1 grindstone, 2 iron rakes, 3 forks, 6 shovels, 1 sod-cutter, 1 axe, 1 saw, 2 hoes, 2 scythes, 2 snaths, 1 grass hook, 1 wheelbarrow, 1 coil rope, 2 spare screws, 2 thermometers, 1 lantern, 1 snow shovel, 1 iron bar. The above named property is valued at \$25.00.

PROPERTY IN WATER BOARD AND SUPERINTENDENT'S OFFICE.

17 chairs. 2 high stools, 1 letter press, 3 desks with drawers, 3 standing desks, 1 roll-cover desk, 3 office-tables, 1 book-sase, 1 clock, 3 thermometers, 5 ink stands, 1 tumbler, 4 maps of Lowell, 1 map of water-distributing pipes, 3 waste baskets, 3 mats, 3 hat-racks, 6 spit-toons, 8 assorted wrenches, 1 tin match-safe, 1 lantern, 1 water-gauge, 1 apparatus for sealing gates, 2 screw drivers, 2 monkey wrenches, 2 files, 1 safe, 1 key-rack, 2 picks, 1 steel prodding bar, 1 shovel, 1 atlas of Lowell, atlas of Middlesex County, 1 black-walnut book-case. The above-named property is valued at \$500.00.

PROPERTY AND TOOLS AT ENGINE HOUSE.

1 vise, 1 work-bench, 1 portable forge, 8 sets brasses for engine, 2 sets differential blocks, 1 piece 2-inch rope, 2 sets fire-irons, 1 brass hydrant. 3 axes, 11 wrenches, 1 hand-saw, 2 jack-screws, 26 cold-chisels, 1 ratchet-drill, 1 socket-drill, 3 calking chisels, 1 barometer, 2 thermometers, 1 water cooler, 1 desk, 1 indicator, 1 oil cupboard, 2 oil dishes, 1 platform scale, 4 crowbars, 64 feet $\frac{3}{8}$ -inch chain, 16 eyebolts, 1 truck, 1 key wrench, 1 wrench for air pump, 1 iron wheelbarrow, 2 hand-saws, 1 buck-saw, 1 saw-horse, 2 gas lamps, 1 high grade thermometer, 4 brass bolts $1\frac{1}{2}$ -inch diameter for pump-valve, 5 spare pump valves, 5 sets spare weights for valves, 11 socket wrenches, 7 pairs gas tongs, 11 finished wrenches Morris engine, 11 finished wrenches Worthington engine, 3 sledge hammers, 12 drills, 1 black-walnut cabinet, 9 chairs, 2 lengths hose, 6 copper lamps, 4 shovels, 1 floor brush, 100 bolts assorted sizes, 2 bit-stocks, 3 bits, 1 25-foot ladder, 1 20-foot, 1 8-foot, 1 pair steps, 1 hoe, 2 racks, 1 small die plate, 1 fore-plane, 3 monkey wrenches, 100 feet 2-inch rope, 4 chisel bars, 6 small taps, 4 finished socket wrenches Worthington engine, 2 14-quart iron pails, 4 hand hammers, 1 extra set grates for boiler, 1 grindstone, 1 anvil, 2 shovels, 1 clock. The above-named property is valued at \$105.300.00.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF JOHN C. WOODWARD, SUPERINTENDENT OF STREETS, JANUARY 1, 1883, BELONGING TO THE APPROPRIATION FOR ROADS AND BRIDGES.

One engine. blacksmiths' tools, and stock, 12 tons hay, 7 tons carrots, 4 tons straw, 100 bushels oats, 10 bags meal, 5 street rakes, 7 forks, 48 horses, 17 sets double harnesses, 16 sets single harnesses, 3 sets lead harnesses, 32 feed baskets, 98 currycombs and brushes, 54 collars, 51 halters, 100 blankets, 51 surcingles, 1 horse-sling, 8 horse covers, 2 buffalo robes, 1 boiler, 16 double carts, 12 single carts, 1 watering cart, 4 wood wagons, 3 pauper wagons, 2 lumber wagons, 5 single wagons, 1 committee wagon, 14 double wood-sleds, 3 dump sleds, 2 single sleighs, 4 pauper sleighs, 2 stone truck-drag, 10 wheelbarrows, 3,400 feet oak plank, 72 shovels, 1 stone-roller, 1 grindstone, 1 boring machine, 2 sand-screens, 3 gravel-rakes, 3 augers, 3 anvils, 1 street-sweeper, 1 coal-screen, 650 feet edgestone, 22 stone bounds, 3 stoves, 3 hand-saws, 4 wood-saws, 63 snow-shovels, 41 hoes, 5 corn brooms, 6 street-brooms, 62 lanterns, 16 oil-cans, 10 pails, 2 long levels, 60 picks, 10 striking-hammers, 14 face-hammers, 5 paving-hammers, 2 hand-hammers, 3 stone-hammers, 2 brick-hammers, 655 lbs. steel drills, 12 plug-drills. 30 crowbars, 4 axes, 2 adzes, 2 jack-screws, 3 plows, 2 street-scrapers, 2 scythes, 100 stake-chains, 12 draught-chains, 36 hammer-handles, 1 stone-crusher, 1 stone-crusher building, 7 street-brooms, 50 bundles broom-stuff, 2 stone-wheelbarrows. 1 platform-scale, 1 pair draught-wheels, 3 tubs, 6 snow-scrapers, 1 snow-plow, 11 tool-chests, 3 coal-hods, 3 cart-bodies, 6 axe-handles, 10 gallons blue paint, 50 street-signs, 300 feet oak lumber (prepared for carts), 4,000 feet spruce lumber, 1 clock, 6 steel wedges, 3 coal-shovels, 16 stonecutters' points, 3 trowels, 4 paving-mauls, 2 cross-cut saws, 3 ladders, 1 hand-cart, 5 long-handled shovels, 3 wash-tubs, 2 chairs, 1 boom-derrick and rigging, 1 writing-desk, 5 powder-cans. 5 tamping-bars, 1 hay-cutter, 182 feet wide flagging, 500 lbs. mineral salt, 1 watch-tackle, 1,500 yards paving-stones, 1 set corner-stone, 1 derrick and rigging, 1 electric battery, 5 spirit-levels. The value of the above-named property is \$21,537.54.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF JOHN C. WOODWARD, SUPERINTENDENT OF STREETS, JANUARY 1, 1883, BELONGING TO THE APPROPRIATION FOR SEWERS AND DRAINS.

One hundred and eighty-nine shovels, 100 picks, 18 pick-handles, 61 striking-hammers, 21 stone-hammers, 5 nail-hammers, 3 black-

smith hammers, 27 crowbars, 10 chains, 200 feet line, 8 jack-screws, 5 sets shear-poles and rigging, 22 tag-ropes, 31 pails, 16 jet-dippers, 10 mauls, 8 iron sheeting-caps, 3,374 lbs. steel drills, 15 dirt-spoons, 16 ledge-guns, 5 brooms, 27 lanterns, 27 wheelbarrows, 730 lbs. canvas, 1 scow, 1 dory, 1 pair oars, 6 boat-hooks, 3 forges, 3 anvils, 1 vise, 7 pairs blacksmith tongs, 3 pairs pipe tongs, 4 sewer-pumps, 1 force-pump and hose, 4 hydrant-wrenches, 2 water-gates, 8 monkey-wrenches, 1 socket-wrench, 2 S wrenches, 4 hydrant-regulators, 6 hoes, 2 rakes, 4 trowels, 3 tape-measures, 11 oil-cans, 3 electric batteries, 20 feet 6-inch Akron pipe, 3 spirit-levels, 2 mallets, 1 chisel, 7 hand-saws, 4 axes, 3 augurs, 2 adzes, 20 lbs. powder, 1 powder-tunnel, 2 powder-cans, 125 lbs. nails and spikes, 1 steam derrick and rigging, 1 double-drum hoisting-engine, 3 dump-boxes, 5 tool-boxes, 5 shanties, 5,000 feet lumber, 350 feet hose, 1 pumping-engine, 1 hoisting-engine, 1 steam boiler, 1 steam derrick and rigging, 1 steam-drill, 70 feet inch steam pipe (covered), 50 feet covered hose, 150 lbs. iron, 33 feet chain $\frac{1}{2}$ —, 2 galvanized iron pails, 1 horse and lever, 5 derrick-tubs, 3 hogsheads, 1 cross-cut saw, 1 wood-saw, 1 bit-stock, 1 dualin heater, 1 Farmers' boiler, 1 set blocks and falls, 2 grapnels, 6 dirt-pumps. The value of the above-named property is \$6,618.30.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF W. D. CHENEY, SUPERINTENDENT OF PUBLIC BUILDINGS, JANUARY 1, 1883.

Ten thousand feet pine boards, 1,000 feet Georgia pine floor-boards, 100 feet fence-pickets, 150 feet white wood, 50 feet 2-inch pine plank, 350 feet 3-inch pine plank, 1,000 feet old lumber, 10 gallons varnish, 2 old stoves, 180 primary desks, 167 grammar desks, 9 teachers' desks, 5 boxes glass, 90 desk irons (large size), 130 pedestals, 16 old tables, 100 desk-irons (small size), 8 water-pails, 4 waste-baskets, 2 coal-hods, 44 gross chalk, 40 settees (at the several armories), 13 mats, 2 gas-fixtures, 10 grammar-chairs, 130 primary-chairs, 10 yards enamel cloth, 25 small chairs, 15 large coffins, 24 small coffins, 8 ladders, 100 small chairs in ward 6 ward-room, 11 tables in ward 6 ward-room, 10 chairs in ward 3 ward-room, 16 tables in ward 3 ward-room, 28 settees in ward-rooms belonging to Public Buildings, 360 chairs at Green (evening) school, 90 tables at Green (evening) school, 240 stools at Green (evening) school, 4 tables at Howard Mission (evening) school, 1 teachers desk at Howard Mission (evening)

school, 4 settees at Howard Mission (evening) school, 15 chairs at Howard Mission (evening) school, 600 feet rubber hose at different schools, 2 casks nails, 9 door-setts, 2 floor-setts, 1 horse, 3 wagons, 1 harness, 1 sleigh, 2 blankets, 1 horse-cover, 1 cast-steel bell on Market-house, 1 bell on Varnum school, 1 bell on Engine-house, Fletcher street, 1 bell on Engine-house, Gorham street, 3 flag-staffs, furniture at City Government building, and Huntington and Jackson halls, furniture at school-houses not included in Real Estate, furniture in armories and drill-rooms, 2 picks, 12 shovels, 10 wheelbarrows, 1 shingle-ripper, 1 steel yard, 2 grindstones, 4 augurs, 4 pairs steps, 6 wood-saws, 4 hand-screws, 10 axes, 4 masons' jacks, 12 paint-pots, 12 oil-cans, 1 set of painters' rigging for stage, 1 saw-bench and engine in shop. The value of the above-named property is \$27,481.05.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF E. S. HOSMER, SUPERINTENDENT ON STREET LIGHTS, JANUARY 1, 1883.

Oil-honse, 804 gas lights, 234 fluid lights, 2 wagons, 2 sleighs, 2 harnesses, 2 blankets, 1 robe, wagon jack and wrenches, 250 fluid lamps, 5 oil cans, 18 patent torches, 15 ladders, 1 air pump, 1 Johnson pump, 275 lamp-post cocks, 60 lbs. waste, set piping tools, bench etc, 600 feet pipe, 80 lbs. fittings, 32 lamp-post arms, 10 square lanterns, (new) 5 square lanterns, (old) 22 globes, $2\frac{1}{2}$ gross matches, 1 gross vesper burners, 6 boxes of glass, 75 gas burners, 150 tin tops, 7 frames, 1 desk, 7 chairs, 20 gallons alcohol, 2 oil tanks, 1 oil tester, 29 iron posts, 18 wood posts, table, etc. The value of the above named property is \$20,765.30.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF E. S. HOSMER, CHIEF ENGINEER OF THE FIRE DEPARTMENT, JANUARY 1, 1883.

One six-circuit automatic repeater, with battery of 279 cups, 40 miles wire, 52 signal boxes, 15 gongs, 8 strikers, 10 indicators, bells, etc., telephone battery of 93 cups, 10 miles wire, call bells, etc., 3 steam fire engines, 2 hook and ladder trucks, fully equipped, 9 horse hose carriages, 3 hand hose carriages, 7 horse hose sleighs, 2 two-horse traverse-runner, sleighs, 1 two-horse traverse-runner sled, 1 protective wagon, fully equipped, 1 pipe truck, 1 Concord wagon, 1 light sleigh, 8 fuel wagons, 18 horses, 8 sets double harnesses, 10

single harnesses, 2 breast plates, 16 halter bridles, 24 blankets, 8 rollers, 3 pairs lead-bars, 300 feet $\frac{3}{4}$ -inch rubber hose, 14,000 feet $2\frac{1}{2}$ -inch hose, 28 hose-pipes and stop-nozzles, 9 two-way chucks, 7 four-way chucks, reducers, ladders, straps, lanterns, pails, water-pots, carriage-jacks, silver trumpet and case, 31 beds and bedding, 143 badges and dies, 29 gross buttons and dies, wrenches, stoves, boilers, mirrors, chairs, brooms, spittoons, brushes, dusters, coal and ash-hods, oil-extinguishers, coal, hay, grain, straw, whips, clocks, coal-boxes, axes, bars, and tools necessary for repairs on engines, fire-alarm telegraph and for cleaning horses. The value of the above-named property is \$85,778.00. There are also under the charge of the Chief Engineer 709 hydrants and 17 reservoirs.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF ALBERT PINDAR, SUPERINTENDENT OF INSTITUTIONS AT CITY FARM, JANUARY 1, 1883.

Seven horses, 4 cows, 51 fowls, 6 ducks, 22 swine, 54 tons English hay, 10 tons meadow hay, 3 tons straw, 85 bushels oats, 16 bushels meal, 5 bushels corn, 100 lbs. screenings, 500 lbs. shorts, 52 barrels vinegar and cider, 128 empty barrels, old casks, lot of sacks, 2 tons carrots, 200 bushels beets, 50 bushels onions, cabbage, 2,295 lbs. pork, salt, old mowing machine, 1 mowing machine, hoes, rakes, 27 forks, 7 plows, 4 plow-handles, 5 plow-points, 18 shovels, 1 hay-knife, 1 hook, sickles, 2 scythes, 7 snaths, 4 rifles, 4 scufflers, 1 grader, 1 hay-cutter, 1 hay-tedder, 2 cultivators, 3 harrows, 1 seed-sower, 1 horse-rake, winnowing machine, 1 corn-sheller, 1 garden-line, 4 pick-axes, 3 axes, 10 ox-chains, 6 stake-chains, 1 water-pot, 5 crow-bars, 11 augurs, lot of planes, lathes, ice-chisel, 2 adzes, bolts, nails, 8 saws, wrenches, 2 blocks and ropes, lot of rope, 14 1-bushel boxes, 8 wheelbarrows, 3 scoops for barrows, 1 screw, old boiler, 1 pump, etc., 5 ladders, 2 step-ladders, rubber hose, old hose-carriage and hose, lot hot-bed sash, paint-stock and glass, 4 storm-windows, 2 old windows, 10 old bedsteads, 3 iron bedsteads, bagging, lot of iron, 3 old belts and copper, 17 cords wood, 30 tons coal, 1 coal-screen, 1 carryall, 1 driving-wagon, 3 market-wagons, 1 dray, 1 hay-wagon, 1 2-horse wagon, 1 1-horse wagon, 1 2-horse hay-wagon, 3 dump-carts, 1 night-soil cart, 1 hand-truck, 8 whiffletrees, 2 sleighs, 1 double riding-sleigh, 1 traverse-runner sleigh, 1 hand-sled, 1 sled, 1 robe, 4,000 shingles, 1 carryall harness, 1 old carryall harness, 2 sets double harness, 1 set

old harness, 1 farm harness, furniture in stable, 1 tin cover, lime, cement, pipe, lumber, etc. Furniture, bedding, etc. The value of the above-named property is \$17,273.09.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF M. E. McDONALD, CITY MARSHAL, AT POLICE COURT ROOMS, JANUARY 1, 1883.

One hundred and fifty-five yards tapestry carpet, 75 yards matting, 14 yards oil-cloth, 28 chestnut chairs, 12 pine chairs, 4 cane-seat chairs, 2 office-chairs, 1 mahogany chair, 1 safe, 8 black-walnut tables, 4 small office-desks, 19 settees, 1 sofa, 2 clocks, 7 spittoons, 4 door-mats, 4 paper-baskets. This property is valued at \$450.00.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF M. E. McDONALD, CITY MARSHAL, AT POLICE STATION, JANUARY 1, 1883.

One safe, 46 office-chairs, 12 spittoons, 10 ink-stands, 2 clocks, 1 table, 1 settee, 7 dippers, 20 locks and keys, 4 mattresses, 1 ice-tank, 5 lanterns, 2 brushes, 2 brooms, 2 steel shovels, 2 wooden shovels, 2 ice-chisels, 1 pitcher, 4 mirrors, 1 mat, 1 wheelbarrow, 2 fire-hooks, 2 fire-scrapers, 5 ash-hods, 3 pails, 1 hammer, 1 wrench, 100 police-clubs, 40 police-belts, 80 police-badges, police dockets and law-books, records, stationery, 1 Lippincott's Gazetteer, 1 roll top-desk, 4 beds and bedding and cloth. The above-named property is valued at \$800.00.

SCHEDULE OF PERSONAL PROPERTY UNDER THE CHARGE OF JAMES MURPHY, SEALER OF WEIGHTS AND MEASURES, JANUARY 1, 1883.

Forty 50-lb. weights, 1 each 7, 14 and 28-lb. weights, 1 set avoirdupois weights, 1 set troy weights, 1 set apothecary weights, 1 set dry measures, 1 set liquid measures, 1 English beam balance-scale, 1 testing-scale, 1 metric weight, 1 metric measure, 1 set figures and stamps, 1 branding-iron, 2 boxes, $\frac{1}{2}$ bushel flaxseed. The value of the above-named property is \$162.00.

REAL AND PERSONAL PROPERTY OWNED BY THE CITY.

Real Estate.....	\$1,055,295 00
Water Works, net cost to January 1, 1882.....	2,323,048 97
Personal Property in care of Superintendent of Streets	28,155 84
Personal Property in care of Superintendent of Street Lights	20,765 30
Personal Property in care of Chief Engineer of Fire Department.....	85,778 00
Personal Property in care of City Marshal	1,250 00
Personal Property in care of Sealer of Weights and Measures.....	162 00
Personal Property in care of Superintendent of Public Buildings, not mentioned below	3,681 05
Furniture in City Hall, and in Huntington and Jack- son Halls.....	9,000 00
Furniture in School-houses.....	10,500 00
Furniture in Armories.....	550 00
Furniture in Ward-rooms.....	150 00
Bell on Varnum School-house	1,000 00
Bell on Market-house Building	900 00
Bell on High-street Church	500 00
Clock on High-street Church.....	500 00
Flagstaffs	1,200 00
Books, etc., at City Library	17,000 00
Debts due the City	115,175 89
Cash in Treasury.....	232,937 57
	<hr/>
	<u>\$3,907,549 62</u>

SEWERS CONSTRUCTED IN 1882.

In	Adams street, from Cross street to a point opposite the school of the Sisters of Notre Dame.....	\$450 48
	Belmont street, from Westford street, to a point near Pine street.....	3,201 31
	Bachelor's Place, from Walker street westerly....	286 92
	Central street, from Preseott street to a point near Pawtucket canal.....	451 24
	Canton street, from Middlesex street to a point opposite the northerly line of land of C. W. Wilder.....	664 97
	Dutton street, from the sewer formerly laid in said street to Wamesit Court.....	2,533 80
	Eleventh street, from the sewer formerly laid in said street to a point opposite the premises of T. S. Cobb.....	1,271 97
	East Merrimaek street, from the sewer formerly laid in said street to a point opposite the premises of W. H. Anderson.....	4,952 77
	Frye street, from New Fletcher street southerly...	532 44
	Fletcher street, from Varney street to a point opposite the premises of Sullivan L. Ward.....	433 73
	Gorham street, from the sewer formerly laid in said street to a point opposite Butler school house....	220 46
	George and Church streets, from William street to a point opposite the premises of F. B. Shedd, on Central street.....	4,268 01
	Hastings street, from Liberty street to a point near Westford street.....	1,535 30
	Hildreth and Bridge streets, from a point opposite the premises of Lydia Varnum to a point opposite the premises of Samuel N. Harris.....	2,216 83
	Liberty street, from a point opposite the premises of Edward D. Clark to a point opposite the Highland School.....	7,569 43
	<i>Amount carried forward.....</i>	<hr/> \$30,589 66

<i>Amount brought forward</i>	\$30,589 66
In Lombard street, from Mt. Vernon street westerly.	814 09
Lawrence and South Whipple streets, from Agawam street to Griffin street.....	3,650 41
Liberty and Barclay streets, from Smith street to a point near the northerly end of Barclay street...	3,967 82
Liberty street, from Smith street westerly.....	720 24
Liberty street from Powell street to a point opposite the premises of E. D. Clark.....	9,927 27
Middle street, from end of sewer laid in 1881 to Shattuck street.....	4,248 27
Methuen street, from Tenth street to a point opposite the premises of Helen J. Barker.....	1,966 55
Mansur street, from Fairmount street to a point near Belmont avenue.....	1,288 44
New Fletcher and Powell streets, from end of sewer laid in 1881 to Liberty street	531 44
Pond Street, from Pleasant street to a point near High street.....	299 22
Stackpole street, from sewer formerly laid in said street westerly to a point near Alder street	2,190 58
South Highland street, from Gorham street to a point opposite the premises of Stephen Baker...	1,234 94
South Whipple street, from Griffin street to Barrington street.....	1,651 77
School street, from end of sewer laid in 1881 to a point near Westford street.....	369 79
Twelfth and Wachusett streets, from Bridge street to a point opposite the premises of William Bascom.....	1,772 39
Willie Avenue, from Hancock street to a point near Clark street.....	345 41
Westford street, from Robbins street to Belmont street	732 84
Whiting street, from Salem street to a point near Fletcher street.....	814 95
West street, from Merrimack river to a point opposite the premises of Charles H. Whitney (unfinished)	18,347 14
West Sixth street, from Coburn street to a point opposite the Primary School-house.....	147 67
Catch Basins	7,588 72
Total cost of sewers constructed in 1882.....	\$93,199 61
Cost of sewers constructed previous to 1882.....	695,614 25
Total cost of sewers to January 1, 1883.....	<u>\$788,813 86</u>

LEASES AND RENTS OF BUILDINGS OWNED BY THE CITY.

	Per Annum.
Leased to Charles P. Talbot & Co., store and cellar in Market House Building for five years from October 1, 1878.....	\$1,200 00
Leased to J. S. Anderson, store in City Hall Building for one year from Febuarray 1, 1883.....	1,000 00
Rented to Carlton & Hovey, store in City Hall Building	1,200 00
Rented to Mrs. S. A. Proper, store in City Hall Build- ing.....	900 00
Rented to Percia L. Dyer, store in City Hall Building..	900 00
Rented to Commonwealth, rooms for Armories.....	800 00
Rented to County of Middlesex, Police Court Rooms...	750 00
Rented to John Gillon, tenement on Moody street.....	108 00
Rented to F. J. O'Roarke, tenement on Moody street..	108 00
Rented to Michael McDermott, tenement on Colburn street.....	120 00
Rented to James M. Pierce, tenement on Colburn street	192 00
Rented to William N. Roberts, tenement on Colburn street.....	192 00
Rented to William N. Smith, tenement on Merrimack street.....	192 00
Rented to Moses W. Stockman, tenement on Merrimack street.....	192 00
Rented to John F. Cosgrove, tenement on Merrimack street.....	192 00
Rented to Frank Brunnell, tenement on Merrimack street.....	96 00
Rented to Eli Brunnell, tenement on Merrimack street..	96 00
Rented to Phebe Scadding, tenement on Merrimack street.....	96 00
Rented to William Charlton, tenement on Merrimack street.....	96 00
Rented to Autoine Bernard, tenement on Merrimack street.....	96 00
Rented to Hattie Queenan, tenement on Merrimack street.....	96 00
Rented to William Meloy, tenement on Central street..	60 00
	\$8,682 00

LAND AND BUILDINGS FOR WHICH THE CITY PAYS RENT.

	Per Annum.
To Boston & Lowell Railroad Co., for ground rent for Huntington and Jackson Halls.....	\$ 475 00
Hocum Hosford, for rent of rooms for City Library	1,200 00
Francis H. Chandler, for rent of building for hose carriage in Pawtucketville	130 00
Proprietors of Locks and Canals, for rent of land on Cheever street.....	1 00
Boott Cotton Mills, for rent of land on First street	20 00
	<u>\$1.826 00</u>

DAVID CHASE,
Auditor.

ANNUAL ACCOUNT OF THE CITY TREASURER AND COLLECTOR OF TAXES
FOR 1882.

CITY OF LOWELL,
Office of CITY TREASURER AND COLLECTOR OF TAXES
January 1, 1883.

TO THE CITY COUNCIL :

Gentlemen,—I have the honor to submit herewith an account of the receipts and payments from January 1 to December 31, 1882.

Respectfully submitted,

JOHN H. McALVIN,
City Treasurer and Collector of Taxes.

Dr. CITY OF LOWELL in account with J. H. McALVIN :

For cash paid on account of—

Schools	\$153,907 51
School-houses.....	45,409 57
Streets.....	142,606 55
Reserved Fund.....	26,020 18
Paupers.....	52,354 56
Police	64,425 09
Fire Department.....	59,429 47
Sewers.....	107,253 48
Commons.....	4,348 28
Printing.....	3,037 16
Lighting	22,959 05
Public Buildings.....	11,657 13
Library.....	7,549 22
Health.....	8 255 49
Water Works.....	173,645 92
City Hall Building Lot.....	386 46
Aiken Street.....	126,072 01
New Buildings, City Farm.....	29,055 11
Intercepting Sewer	45,417 64
Central Bridge.....	19,891 83
State Aid	10,787 25
State Aid, Indigent Soldiers and Sailors.....	9,285 50
Interest.....	39,265 57
Salaries.....	16,245 65
Temporary Loans.....,.....	162,000 00
City Debt.....	65,000 00
State Tax.....	42,200 00
County Tax.....	15,904 08
National Bank Tax.....	19,829 26
City of Lowell Water Loan Sinking Fund.....	25,000 00
Sinking Fund for Loan of 1876.....	4,000 00
City Hall Building Lot Sinking Fund	7,000 00
Sinking Fund for Loan of 1880.....	4,000 00
Sinking Fund for Ordinary City Debt	53,154 09
High Service Water Loan Sinking Fund.....	1,800 00
Aiken Street Sinking Fund.....	16,000 00
	<hr/>
	\$1,595,153 11
Balance, cash in the Treasury.....	232,937 57
	<hr/>
	\$1,828,090 68
	<hr/>

City Treasurer and Collector of Taxes, January 1, to December 31, 1882. *Cr.*

By Cash received on account of		
Cash on hand January 1, 1882.....		\$21,309 78
Schools	\$1,199 36	
School houses.....	442 72	
Streets.....	71,902 21	
Reserved Fund.....	40,106 80	
Paupers.....	12,169 84	
Police	8,328 09	
Fire Department.....	1,661 76	
Sewers.....	44,148 61	
Commons.....	496 25	
Printing.....	52 80	
Lighting	214 59	
Public Buildings.....	3,597 47	
Library.....	3,127 97	
Health	4 00	
Water Works.....	140,397 96	
City Hall Building Lot.....	1,862 10	
Aiken Street.....	197,925 00	
New Buildings City Farm.....	61,575 00	
Intercepting sewer.....	57,515 00	
Central Bridge.....	122,272 50	
State Aid.....	10,728 50	
State Aid, Indigent Soldiers and Sailors.....	5,267 00	
Interest.....	3,862 66	
Taxes of 1879.....	25 90	
Taxes of 1880.....	1,809 33	
Taxes of 1881.....	23,999 31	
Taxes of 1882.....	721,934 68	
Temporary Loans.....	162,000 00	
City Debt.....	55,000 00	
Sinking Fund for Ordinary City Debt	53,154 09	
	<hr/>	1,806,780 90
		<hr/>
		<u>\$1,828,090 68</u>

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

CITY OF LOWELL WATER LOAN SINK- ING FUND.

TO THE CITY COUNCIL :

Gentlemen, — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the City of Lowell Water Loan Sinking Fund for the financial year ending December 31, 1882, to wit :

Amount of this fund December 31, 1882.....	\$339,546 67
--	--------------

RECEIPTS.

Receipts previous to January 1, 1882.....	\$287,207 38
Appropriation by the City Council	25,000 00
Interest on investments	15,287 00
Interest on daily balances	52 29
Payment of Bond, matured.....	2,000 00
Payment of Note, matured	10,000 00
	<u>\$339,546 67</u>

PAYMENTS.

Payments for securities to December 31, 1882.....	\$339,099 36
Cash on hand.....	447 31
	<u>\$339,546 67</u>

Whole amount received to the credit of the City of Lowell Water Loan Sinking Fund to December 31, 1882.....	\$339,546 67
<i>Amount carred forward.....</i>	<u>\$339,546 67</u>

<i>Amount brought forward</i>	\$339,546 67
Deduct for payment of one \$2,000 four-per-cent. Stoughton Bond, which matured August 10, 1882, with the premium paid for the same for 1881 and 1882.....	2,050 00
	<hr/> \$337,496 67
Deduct for payment of one note of 10,000 of the City of Lowell, which matured September 13, 1882, with the premium paid for same	10,200 00
	<hr/> 327,296 67
Deduct for difference in accrued interest.....	45 91
Cost of securities on hand December 31, 1882.....	<u>\$327,250 76</u>

Cost and character of the securities be-
longing to the City of Lowell WATER
LOAN SINKING FUND, December
31, 1882, to wit:

Forty \$1,000 Lowell 6s.....	\$40,767 92
Thirty \$1,000 Lawrence 6s.....	29,427 34
Six \$1,000 Chelsea 6s.....	6,857 34
Thirty-eight \$1,000 Bangor 6s.....	39,648 25
Twelve \$1,000 Portland 6s.....	12,890 75
One \$5,000 Haverhill 6s.....	5,626 25
Two \$1,000 Fall River 6s.....	2,165 34
Four \$500 Bangor 6s.....	2,180 00
One \$1,000 Arlington 5s.....	1,084 30
Three \$1,000 Arlington 6s.....	3,377 50
Nineteen \$5,000 Manchester 6s.....	10,685 50
Sixteen \$1,000 Manchester 6s.....	18,054 99
One \$10,000 Beverly 6s.....	10,381 67
Five \$1,000 Cambridge 6s.....	5,895 82
One \$1,000 Natick 5s.....	1,024 17
Twenty-one \$1,000 Wayland 5s.....	21,752 50
Two \$1,000 Bangor 7s.....	2,329 39
One \$200 Dover 6's.....	217 13
One \$1,000 Somerville 5s.....	1,072 22
One \$1,000 Nashua 6s.....	1,110 58
One \$5,000 Lawrence 6s.....	5,764 16
Ten \$2,000 Stoughton 4s.....	20,334 45
Two \$500 Wilton 6s.....	1,081 33
Three \$500 Pawtucket 5s.....	1,685 91
Three \$1,000 Marshfield 4s.....	3,068 83
One \$27,000 Marshfield 4s.....	27,877 50

<i>Amount carried forward</i>	\$276,361 14
-------------------------------------	--------------

<i>Amount brought forward</i>	\$276,361 14	
Six \$1,000 Providence 5s.....	7,204 17	
One \$1,000 Keene 6s.....	1,207 00	
One \$1,000 Lynn 5s.....	1,176 25	
One \$1,000 Lynn 6s.....	1,231 33	
One \$1,000 Beverly 4s.....	1,040 23	
One \$1,000 Salem 5s.....	1,176 81	
Three \$1,000 Danvers 5s.....	3,527 09	
One \$26,000 Everett 7s.....	33,879 43	
	<hr/>	\$326,803 45
Cash on hand.....		447 31
		<hr/>
		<u>\$327,250 76</u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

SINKING FUND,

FOR THE REDUCTION OF THE LOAN OF 1876.

TO THE CITY COUNCIL:

Gentlemen, — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the Sinking Fund for the reduction of the Loan of 1876, for the financial year ending December 31, 1882, to wit:

Amount of this fund December 31, 1882. \$27,395 61

RECEIPTS.

Receipts previous to January 1, 1882....	\$22,253 22
Appropriated by the City Council.....	4,000 00
Receipts for interest on investments	1,085 00
Receipts for interest on daily balances...	57 39
	<u>\$27,395 61</u>

PAYMENTS.

Payments previous to January 1, 1882...	\$21,083 17
Payment for securities in 1882:	
One \$1,000 Danvers 5's.....	1,000 00
Premium.....	175 00
Accrued interest	69
Three \$1,000 Springfield 6's	3,000 00
Premium.....	892 50
Accrued interest.....	70 00
Cash on hand.....	1,174 25
	<u>\$27,395 61</u>

The following statement shows the cost and character of the securities of this fund, to wit:

Three \$1,000 Manchester 6's.....	\$3,341 50	
Two \$500 Machester 6's.....	1,122 92	
Four \$1,000 Wayland 5's.....	4,143 34	
Four \$1,000 Lewiston 5's.....	4,291 11	
Seven \$500 Pawtucket 5's.....	3,929 30	
Three \$1,000 Providence 5's.....	3,602 08	
One \$500 State of New Hampshire 6's..	652 92	
One \$1,000 Danvers 5's.....	1,175 69	
Three \$1,000 Springfield 6's.....	3,962 50	
Cash on hand.....	1,174 25	
		<hr/>
		<u>\$27,395 61</u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

SINKING FUND.

FOR THE REDUCTION OF THE LOAN OF 1880.

TO THE CITY COUNCIL:

Gentlemen, — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the Sinking Fund for the reduction of the Loan of 1880, for the financial year ending December 31, 1882, to wit:

Amount of fund December 31, 1882.....	<u>\$8,210 60</u>
Received previous to January 1, 1882...	\$4,003 33

RECEIPTS.

Appropriated by the City Council 1882..	4,000 00
Interest on investments.....	192 50
Interest on daily balances.....	14 77
	<u>\$8,210 60</u>

PAYMENTS.

For securities previous to January 1, 1882	\$3,830 00
For securities in 1882:	
Three \$1,000 Newton 5's, bonds....	3,542 08
One \$500 Pawtucket 5's, bond	569 72
Cash on hand	268 80
	<u>\$8,210 60</u>

The following statement shows the cost and character of the securities belonging to this fund December 31, 1882, to wit:

One \$3,000 State of Rhode Island 6's....	\$3,820 00
Three \$1,000 Newton 5's.....	3,542 08
<i>Amount carried forward.....</i>	<u>\$7,372 08</u>

<i>Amount brought forward</i>	\$7,372 08	
One \$500 Pawtucket 5's.....	569 72	
Cash on hand.....	268 80	
	<hr/>	<u>\$8,210 60</u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE.

Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,

City Clerk.

HIGH SERVICE WATER LOAN SINKING
FUND ACCOUNT.

TO THE CITY COUNCIL :

Gentlemen, — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the High Service Water Loan Sinking Fund Account for the financial year ending December 31, 1882, to wit :

Amount of this fund December 31, 1882..... \$1,813 15

RECEIPTS

Appropriated by the City Council.....	\$1,800 00	
Received for interest on investments.....	12 50	
Received for interest on daily balances ..	65	
	<u>-----</u>	<u>\$1,813 15</u>

PAYMENTS.

For securities to wit :	
One \$1,000 Beverly 4's.....	\$1,000 00
Premium.....	30 00
Accrued interest.....	5 55
	<u>-----</u>
<i>Amount carried forward.....</i>	<i>\$1,035 55</i>

<i>Amount brought forward</i>	\$1,035 55	
One \$500 Pawtucket 5's.....	500 00	
Premium.....	60 00	
Accrued interest	9 72	
Cash on hand.....	207 88	
		<u>\$1,813 15</u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

CITY HALL BUILDING LOT SINKING FUND.

TO THE CITY COUNCIL :

Gentlemen, — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the City Hall Building Lot Sinking Fund for the financial year ending December 31, 1882, to wit :

Amount of this fund December 31, 1882.	<u>\$22,202 83</u>
---	--------------------

RECEIPTS.

Receipts previous to January 1, 1882.	\$14,308 10	
Appropriated by the City Council.	7,000 00	
Interest on investments	854 00	
Interest on daily balances.	40 73	
	<u> </u>	<u>\$22,202 83</u>

PAYMENTS.

Payments previous to January 1, 1882.	13,999 56	
Payments for securities in 1882 :		
Four \$500 Pawtucket 5's.	2,278 88	
Two \$1,000 Lowell 6's.	2,384 16	
Two \$1,000 Springfield 6's.	2,641 66	
Cash on hand.	898 57	
	<u> </u>	<u>\$22,202 83</u>

The following statement shows the cost and character of the securities held by this fund, to wit :

Sixteen \$500 Pawtucket 5's.	\$9,013 05
Four \$1,000 Holyoke 7's.	4,978 89
	<u> </u>
<i>Amount carried forward</i>	\$13,991 94

<i>Amount brought forward</i>	\$13,991 94	
Nine \$100 State of New Hampshire 6's..	1,085 25	
One \$1,000 Providence 5's.....	1,201 25	
Two \$1,000 Lowell 6's.....	2,384 16	
Two \$1,000 Springfield 6's.....	2,641 66	
Cash on hand.....	898 57	
		<hr/>
		<u>\$22,202 83</u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

AIKEN STREET SINKING FUND ACCOUNT.

TO THE CITY COUNCIL:

Gentlemen. — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the Aiken Street Sinking Fund Account for the financial year ending December 31, 1882, to wit:

Amount of this fund December 31, 1882..... \$16,013 47

RECEIPTS.

Appropriated by the City Council.....	\$16,000 00	
Received for interest on investments	12 50	
Received for interest and daily balances.	97	
		<u>\$16,013 47</u>

PAYMENTS.

Payments for securities:	
One \$500 Pawtucket 5's.....	\$500 00
Premium.....	60 00
Accrued interest.....	9 72
One \$8,000 Bedford 7's	8,000 00
Premium.....	2,220 00
One \$1,000 Cambridge 6's.....	1,000 00
Premium.....	300 00
Accrued interest.....	8 33
<i>Amount carried forward</i>	<u>\$12,098 05</u>

<i>Amount brought forward</i>	\$12.098 05	
Three \$1,000 Portland 6's	3,000 00	
Premium.....	600 00	
Accrued interest..... :	10 00	
Cash on hand.....	305 42	
		<hr/>
		\$16,013 47

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

SINKING FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

TO THE CITY COUNCIL :

Gentlemen,—The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the Sinking Fund for the reduction of the Ordinary City Debt, for the financial year ending December 31, 1882, to wit :

Amount of the fund to December 31, 1882.....	\$191,986 48
--	--------------

RECEIPTS.

Receipts previous to January 1, 1882....	\$68,659 32	
Receipts for Corporation Tax.....	53,154 09	
Receipts for interest on investments.....	3,542 50	
Receipts for interest on daily balances..	58 82	
Receipts for sale of securities.....	66,571 75	
		\$191,986 48

PAYMENTS.

Payments for securities previous to January 1, 1882.....	\$68,253 75	
Payments for securities in 1882.....	121,954 61	
Cash on hand.....	1,778 12	
		\$191,986 48

Amount of this fund to December 31, 1882	\$191,986 48	
Deduct for securities sold in 1882.....	66,571 75	
<i>Amount carried forward</i>	\$125,414 73	

<i>Amount brought forward</i>	\$125,414 73	
Deduct for difference in accrued interest on the securities sold.....	274 72	
	<hr/>	\$125,140 01
Deduct for amount transferred to City of Lowell to pay City Debt.....	55,000 00	
	<hr/>	
Making the cost of the securities belong- ing to this fund Dec. 31, 1882.....		<u>\$70,140 01</u>

Cost and Character of the securities belonging to this fund Dec 31, 1882, to wit:

Thirteen \$500 Pawtucket 5's.....	\$7,375 00	
Ten \$1,000 Providence 5's.....	11,977 78	
One \$1,000 Lawrence 6's.....	1,231 33	
Four \$10,000 Providence 5's.....	47,777 78	
	<hr/>	
	\$68,361 89	
Cash on hand.....	1,778 12	
	<hr/>	<u>\$70,140 01</u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
[*City Clerk.*]

HAPGOOD WRIGHT CENTENNIAL TRUST FUND ACCOUNT.

TO THE CITY COUNCIL :

Gentlemen, — The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition and income of the Hapgood Wright Centennial Trust Fund Account for the financial year ending December 31, 1882, to wit :

Amount of fund December 31, 1882.....		\$1,368 79
		<u> </u>
Receipts previous to January 1, 1882....	\$1,308 79	
Receipts for interest in 1882.....	60 00	
	<u> </u>	\$1,368 79
		<u> </u>
Said fund is invested in—		
One \$1,000 Lawrence 6's, bond.....	\$1,000 00	
Premium on above.....	116 75	
Accrued interest.....	23 33	
	<u> </u>	
	\$1,140 08	
City Institution for Savings.....	168 71	
Lowell Institution for Savings.....	60 00	
	<u> </u>	\$1,368 79
		<u> </u>

Respectfully submitted,

JACOB ROGERS,
J. F. KIMBALL,
E. W. HOYT,

Commissioners of Sinking Funds, 1882.

IN COMMON COUNCIL, January 9, 1883.

Read and referred to the Joint Committee on Accounts. Sent up for concurrence.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, January 9, 1883.

Read and referred in concurrence.

DAVID W. O'BRIEN,
City Clerk.

CITY OF LOWELL.

IN COMMITTEE ON ACCOUNTS,
February 27, 1883.

TO THE CITY COUNCIL :

Gentlemen, — The Joint Standing Committee on Accounts, to whom was referred the Accounts of John H. McAlvin, City Treasurer and Collector of Taxes, and the Accounts of the Sinking Fund Commissioners, have the honor to report that they have caused said reports to be examined by an expert accountant, and they herewith present the report of said expert as the report of the Committee.

Respectfully submitted,

MILES J. FLETCHER,
JOHN WELCH,
JOSEPH S. BROWN,
JOHN J. HOGAN,
MICHAEL F. CLARK,

Joint Committee on Accounts, 1883.

LOWELL, MASS., January 31, 1883.

TO THE JOINT STANDING COMMITTEE ON ACCOUNTS OF THE CITY OF
LOWELL :

Gentlemen, — At your request, and to a great extent with your assistance, I have examined the books and accounts of John H. McAlvin, City Treasurer and Collector of Taxes from January 1, 1882, to January 26 (at noon), 1883. All the books and accounts have been actually footed, either by you or myself, and have been promptly placed at our disposal by the outgoing Treasurer, who has been as anxious as ourselves that the examination should be as thorough and careful as possible.

The result has been perfectly satisfactory. The accounts are correct and properly vouched, and the books are models of straightforward, honest, intelligent, painstaking work. For convenience and for purposes of comparison, the appended report of summaries of accounts has been made up to the close of the financial year, December 31, 1882, though the accounts themselves have been traced up to noon of January 26, 1883, at which time the cash was counted and the office turned over to Van B. Sleeper, the new Treasurer and Collector.

REPORT OF SUMMARIES.

Cash balance, as shown by Treasurer's Cash-Book, (noon) January 26, 1883.....	\$262,774 47
Amount standing to the credit of Treasurer at Appleton National Bank, at noon, January 26, 1883, and vouched for by E. K. Perley, Cashier.....	\$262,418 88
Actual cash in Treasurer's office, same date.....	355 59
Total	<u>\$262,774 47</u>
Cash balance on hand January 1, 1882...	<u>\$21,309 78</u>
Amount carried forward.....	\$21,309 78

<i>Amount brought forward</i>		\$21,309 78
Amounts received by City Treasurer for the year ending December 31, 1882, from all sources as follows, viz. :		
On account of Schools.....	\$1,199 36	
School Houses.....	442 72	
Streets.....	71,902 21	
Reserved Fund.....	40,106 80	
Paupers.....	12,169 84	
Police	8,328 09	
Fire Department.....	1,661 76	
Sewers.....	44,148 61	
Commons	496 25	
Printing.....	52 80	
Lighting	214 59	
Public Buildings.....	3,597 47	
Library.....	3,127 97	
Health.....	4 00	
Water Works.....	140,397 96	
City Hall Building Lot..	1,862 10	
Aiken Street.....	197,925 00	
New Buildings at City Farm	61,575 00	
Intercepting Sewer.....	57,515 00	
Central Bridge..	122,272 50	
State Aid.....	10,728 50	
State Aid for Indigent Soldiers and Sailors.	5,267 00	
Interest.....	3,862 06	
Taxes of 1879.....	25 90	
Taxes of 1880.....	1,809 33	
Taxes of 1881.....	23,999 31	
Taxes of 1882.....	721,934 68	
Temporary Loans.....	162,000 00	
City Debt.....	55,000 00	
Sinking Fund for Ordina- ry City Debt.....	53,154 09	
Total Receipts.....		<u>1,806,780 90</u>
Total Receipts and Balance.....		<u><u>\$1,828,090 68</u></u>
Whole amount paid out by City Treasurer for the year ending December 31, 1882, was as follows. viz. :		
On account of Schools.....	\$153,907 51	
School Houses.....	45,409 57	
<i>Amount carried forward</i>	\$199,317 08	

<i>Amount brought forward</i>	\$199,317 08
Streets.....	142,606 55
Reserved Fund.....	26,020 18
Paupers.....	52,354 56
Police.....	64,425 09
Fire Department.....	59,429 47
Sewers.....	107,253 48
Commons.....	4,348 28
Printing.....	3,037 16
Lighting.....	22,959 05
Public Buildings.....	11,657 13
Library.....	7,549 22
Health.....	8,255 49
Water Works.....	173,645 92
City Hall Building Lot...	386 46
Aiken Street.....	126,072 01
New Buildings at City Farm.....	29,055 11
Intercepting Sewer.....	45,417 64
Central Bridge.....	19,891 83
State Aid.....	10,787 25
State Aid for Indigent Soldiers and Sailors.....	9,285 50
Interest.....	39,265 57
Salaries.....	16,245 65
Temporary Loans.....	162,000 00
City Debt.....	65,000 00
State Tax.....	42,200 00
County Tax.....	15,904 08
National Bank Tax.....	19,829 26
City of Lowell Water Loan Sinking Fund.	25,000 00
Sinking Fund for Loan of 1876.....	4,000 00
City Hall Building Lot Sinking Fund.....	7,000 00
Sinking Fund for Loan of 1880.....	4,000 00
Sinking Fund for Ordina- ry City Debt.....	53,154 09
High Service Water Loan Sinking Fund.....	1,800 00
Aiken Street Sinking Fund.....	16,000 00
Total Payments 1882.....	\$1,595,153 11
Balance Cash in Treasury Dec. 31. 1882	232,937 57
	<hr/> 1,828,090 68 <hr/>

TAX ACCOUNT.

Amount of uncollected taxes December 31, 1881, charged to sundry persons, as follows :

Taxes of 1879.....	\$68 45	
Taxes of 1880.....	8,752 55	
Taxes of 1881.....	33,589 87	
<hr/>		
Total of taxes uncollected January 1, 1882.....	\$42,410 87	
Total assessed in 1882 by the Board of Assessors	775,596 48	
<hr/>		
Total amount as charged to Treasurer December 31, 1882.....		<u>\$818,007 35</u>

The above total is accounted for as follows, viz. :

Tax receipts during 1882, as follows :

Taxes of 1879.....	\$25 90	
Taxes of 1880.....	1,809 33	
Taxes of 1881.....	23,999 31	
Taxes of 1882.....	721,934 68	
<hr/>		
Total receipts in 1882.....		\$747,769 22

Add abatements, as follows :

On taxes of 1879.....	\$4 00	
On taxes of 1880.....	6,835 22	
On taxes of 1881.....	62 53	
On taxes of 1882.....	4,759 23	
<hr/>		
Total of abatements in 1882.....		11,660 98

Add taxes remaining unpaid Dec 31, 1882, charged to sundry persons :

For the year 1879.....	\$38 55	
For the year 1880.....	108 00	
For the year 1881.....	9,528 03	
For the year 1882.....	48,902 57	
<hr/>		
Total of unpaid taxes.....		\$58,577 15
<hr/>		
Total of amounts received, abated and uncollected		<u>\$818,007 35</u>

SUMMARY OF ACCOUNT OF ANNUAL WATER TAX, 1882.

Whole amount of annual water-rates sent to City Treasurer for collection for the year ending December 31, 1882.	\$84,112 23	
Add amount of "Transfer Account," the same being the total of the unpaid accounts of previous years, charged to sundry persons.....	806 77	
Total.....		<u>\$84,919 00</u>
Whole amount collected in 1882, on account of water-tax of said year.....	82,033 15	
Add amount collected on account of previous years, in 1882.....	673 80	
		<u>\$82,706 95</u>
Amount abated on account of 1882.....	1,890 23	
Add amount abated in 1882 on account of previous years.....	79 25	
		<u>1,969 48</u>
Amount unpaid December 31, 1882, charged to sundry persons on account of 1882.....	188 85	
Add amount unpaid December 31, 1882, on account of previous years.....	53 72	
		<u>242 57</u>
Total.....		<u>\$84,919 00</u>

In addition to the above, the monthly accounts or special taxes pertaining to the Water Department, and the quarterly accounts of Metered Water Taxes, have been carefully footed, and are correct.

In making up the following summary of the condition of the several Sinking Funds, entrusted to the City Treasurer as Secretary and Treasurer of Sinking Funds, I have thoroughly examined the annual reports of the Treasurer, as well as the original Sinking Fund Accounts, and have also, with you, inspected in detail every bond and security therein set forth as the property of the City of Lowell, and have also taken into account the various cash balances which have been accepted by the City Treasurer elect.

STATUS OF SINKING FUNDS. DECEMBER 31, 1882.

³CITY OF LOWELL WATER LOAN SINKING FUND.

Whole amount standing to the credit of said fund, December 31, 1881.....	\$287,207 38	
Whole amount received during the year 1882.....	52,339 29	
		<hr/>
Total.....		339,546 67
		<hr/>
Deduct for one Bond and one Note, ma- tured and paid in 1882, with pre- miums and accrued interest, and dif- ference in accrued interest.....	12,295 91	
		<hr/>
Balance December 31, 1882.....		<u>\$327,250 76</u>
Invested as follows:		
In Bonds, including premiums and ac- count interest.....	\$326,803 45	
Cash in Bank.....	447 31	
		<hr/>
		<u>\$327,250 76</u>

SINKING FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

Whole amount standing to the credit of said fund December 31, 1881.....	\$68,659 32	
Received during the year 1882, viz. : Cor- poration Tax, interest, and for sale of securities.....	123,327 16	
		<hr/>
		\$191,986 48
Deduct amount of City Debt paid in 1882	55,000 00	
Also for securities sold	66,846 47	
		<hr/>
		121,846 47
		<hr/>
Total amount of fund December 31, 1882		<u>\$70,140 01</u>

Invested in Bonds, including premium and accrued interest.....	\$68,361 89
Cash in Bank	1,778 12

Amount of fund, December 31, 1882....	<u>\$70,140 01</u>
---------------------------------------	--------------------

SINKING FUND FOR THE REDUCTION OF THE LOAN OF 1876.

Whole amount standing to the credit of said fund, December 31, 1881.....	\$22,253 22
Received during the year 1882 (appropri- ation and interest)	5,142 39
	<u>\$27,395 61</u>

Invested in Bonds, including premiums and accrued interest	\$26,221 36
Cash in Bank.....	1,174 25

Amount of fund, December 31, 1882....	<u>\$27,395 61</u>
---------------------------------------	--------------------

SINKING FUND FOR THE REDUCTION OF THE LOAN OF 1880.

Whole amount standing to the credit of said fund, December 31, 1881.....	\$4,003 33
Received during the year 1882 (appro- priation and interest)	4,207 27
	<u>\$8,210 60</u>

Invested in Bonds, including premium and accrued interest	\$7,941 80
Cash in Bank.....	268 80

Amount of fund, December 31, 1882....	<u>\$8,210 60</u>
---------------------------------------	-------------------

HAPGOOD WRIGHT CENTENNIAL TRUST FUND.

Whole amount standing to the credit of said fund, Dec. 31, 1881	\$1,308 79	
Received for interest during the year 1882	60 00	
	<hr/>	\$1,368 79
Invested in one bond, including premiums and accrued interest.....	\$1,140 08	
Cash in Bank.....	228 71	
	<hr/>	
Amount of fund December 31, 1882.....		<u>\$1,368 79</u>

SINKING FUND ON THE CITY HALL BUILDING LOT.

Whole amount standing to the credit of said fund, December 31, 1881.....	\$14,308 10	
Received during the year 1882 (appro- priation and interest).....	7,894 73	
	<hr/>	\$22,202 83
Invested in Bonds, including premiums and interest	\$21,304 26	
Cash in Bank.....	898 57	
	<hr/>	<u>\$22,202 83</u>

HIGH SERVICE WATER LOAN SINKING FUND.

Whole amount standing to the credit of said fund, viz.: Amount appropri- ated by City Council in 1882, with accrued interest to December 31, 1882	\$1,813 15	
	<hr/>	\$1,813 15
Invested in Bonds, including premium and accrued interest.....	\$1,605 27	
Cash in Bank.....	207 88	
	<hr/>	
Amount of fund, December 31, 1882....		<u>\$1,813 15</u>

AIKEN STREET SINKING FUND.

Amount appropriated by City Council in 1882, including accrued interest to December 31, 1882.....	\$16,013 47	
	<hr/>	<u>\$16,013 47</u>
Invested in Bonds, including premiums and accrued interest	\$15,708 05	
Cash in Bank.....	305 42	
	<hr/>	
Amount of fund December 31, 1882.....		<u>\$16,013 47</u>

Respectfully submitted,

STEPHEN J. KIRBY.

IN BOARD OF ALDERMEN, February 27, 1883.

Read and sent down.

DAVID W. O'BRIEN,
City Clerk.

IN COMMON COUNCIL, February 27, 1883.

Received and read.

DAVID CHASE,
Clerk.

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ANNUAL REPORT

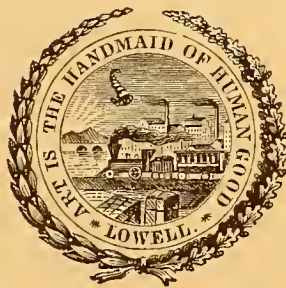
OF THE

DIRECTORS

OF THE

LOWELL CITY LIBRARY,

DECEMBER 21, 1882.



LOWELL, MASS.

MORNING MAIL PRINT: NO. 18 JACKSON STREET.

1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, December 21, 1882.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, December 21, 1882.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

DIRECTORS' ROOM, CITY LIBRARY,
LOWELL, December 21, 1882.

TO THE CITY COUNCIL OF LOWELL:

The Board of Directors of the City Library have the honor to submit the following report for the year 1882:

RECEIPTS.

Balance undrawn January 1, 1882	\$ 427 43	
Appropriation	4,000 00	
Dox tax transferred to Library account	2,063 81	
Subscriptions	933 00	
Catalogues and Supplements	43 25	
Fines	58 30	
Lost Books paid for	18 59	
Books sold	6 52	
Waste paper	4 50	
		<hr/> \$7,555 40

EXPENDITURES.

Salaries	\$2,361 29	
Rent and heating	1,700 00	
Gas	172 57	
		<hr/>
<i>Amounts carried forward</i>	<i>\$4,233 86</i>	<i>\$7,555 40</i>

<i>Amounts brought forward</i>	\$4,233 86	\$7,555 40
Books for circulation	2,220 86	
Blank books and stationery	23 66	
Binding	226 77	
Shelves, furniture and repairs	178 20	
Postage, expressage and freight	42 00	
Printing and advertising	47 65	
Work on Card Catalogue	433 50	
Catalogue cards	4 50	
Manilla paper	39 20	
Water tax	7 00	
Ice, from November, 1880, to May, 1882	42 00	
Watering street	6 50	
Expenses to Boston (book sales)	36 25	
Cleaning	7 27	
Balance	6 18	
		<hr/> \$7,555 40 <hr/>

CONDITION OF THE LIBRARY.

New volumes added by purchase	1,957
Volumes donated	19
Total volumes added, 1882	1,976
Total volumes in Library	25,983
Volumes lost and unpaid for	11
Estimated value of same	\$8 50
New Subscribers	506
Non-Resident subscribers	19
Whole number of subscribers, 1882	1,847
Books delivered for home use	86,728
Daily average	310

The history of the Library for the past year has been an important chapter in the annals of the institution. The death of the former esteemed Libra-

rian, the painful illness and death of the catalogue assistant, the anxiety attending the election of those who were to fill their places, and, withal, the important work to be done on the catalogue which was about to be intrusted, in part, to strange hands were all circumstances of much anxiety and care on the part of the Board.

The work of cataloguing has gone on steadily and great progress can be reported. The first duty was to prepare a plan of work. That adopted was the Amherst College plan of cataloguing, with some important additional subdivisions in the classified species of subjects which were made by Mr. Seward, chairman of the book and catalogue committees. This was done about two years ago. The second work was to copy upon cards the titles of all the books in the Library, making two cards for each book, one for the subject card and one for the author card. This was a very laborious work, requiring great care on the part of the copyists in regard to spelling, capitals, punctuation and, above all, legibility. It was very difficult to obtain good and suitable workmen, and, with all our care, many errors were made which have been subsequently discovered and corrected. This great work involved the writing of upwards of seventy thousand cards, which was done in the years 1880 and 1881 and has been kept up to date, this year. The third

important duty was the classification of these cards according to their scientific places in the system adopted. This work calls for the highest scholarship and can only be done by a scholar as it should be done. No amount of service in this institution, however long continued, would qualify one to do that part of the work; and it is a duty which must be performed once in every month of the year, for we average to add between one and two hundred books monthly. We are compelled to believe that the great amount of study and the amount of nervous force expended by our late lamented Librarian in the performance of this delicate and difficult duty tended greatly to impair his health and wear out his body, already too frail. The present Librarian has worked most faithfully and ably in the performance of this difficult task, possessing not only the requisite scholarship but the requisite bone, sinew and muscle.

The fourth great work is the putting of the cards in their proper places in the drawers which are constructed for them. This is being now done, at the same time that the work of classification goes on. The fifth and last catalogue duty will be the printing of the catalogue. It is hoped that this can be done the present year. The entire work has gone on as rapidly as it has been possible for it to be done. During the last six months, since the new Librarian

came into power, it has been carried rapidly forward. The chairman of the committee has looked after the whole work faithfully, and the Librarian has led him at such a pace that he has had hard work to follow.

It becomes the sad duty of the present Board of Directors to record the death of the honored and respected Librarian of this Library, Mr. Marshall H. Clough, who had served the city in that capacity, with distinguished ability, for fourteen and a half years, with the exception of one year. He was a man of good understanding, remarkable judgment, fine sense, scholarly habits, and the best and purest character. He was devotedly attached to this institution; knew the place of every important book, was prepared to aid the patrons in their search for books and was ever ready and willing to do so. We had observed, at the beginning of the year, that his health was failing and advised him to give up all care. But he was anxious for his family and anxious, too, to carry forward our new work to completion. He took a just pride in the performance of his duties and was punctilious, exact and faithful. He labored many hours more than ordinary mechanics and was indeed one of the hardest worked men in the municipal service. He was greatly beloved by the Library assistants who prepared a tender, written tribute to his memory which was copied, by permission of the board, in their

book of records, along with their own resolutions of respect. On the evening of June 26, the Board granted Mr. Clough a leave of absence, which his honored service so richly merited and which he had never sought himself. He was granted a recess until the first of September; but the Wise Disposer of all events had determined in His infinite wisdom that it should be a last leave. It was only too apparent to his friends that a fatal consumption had nearly done its work. So slowly and so imperceptibly had the disease made its appearance that none but intimate friends were aware of its nature. Tuesday, June 27, the day following the action of the Board, he went to Juniper Point in Salem, hoping the salt air would revive him, but he began to sink rapidly and expired Sunday, July 2. He would have been forty years of age on the fourth day of the same month.

June 26, Mr. Walter H. Gilman was appointed to take the charge of the Library until Mr. Clough returned, or a successor was appointed. He continued to fill the position until the election of the present Librarian, Mr. F. P. Hill, on the 11th of July. This is a fitting moment to speak of our former Librarians and to group them together in a table. The Library was founded, by an ordinance of the City Council, May 20, 1844, and was called, at first, the City School Library, but it was never under the management of

the School Board, as many have supposed. That was simply a name, though it was expressly designed to aid and supplement the work of the schools. The management has been, from the first, under the direction of a Board of Directors, chosen by the City Council, consisting of five at first and six later, to which number the Mayor and President of the Common Council are added *ex officio*. The first Board was chosen June 7, 1844, and annually thereafter on the day of the inauguration of the City Council. The Librarians have been :

Josiah Hubbard, from June 7, 1844, to Jan. 5, 1857.

J. Judson Judkins, from Jan. 5, 1857, to Jan. 4, 1858.

Eliphalet Hills, from Jan. 4, 1858, to Sept. 13, 1859.

H. W. Palmer, from Sept. 13, 1859, to Jan. 2, 1860.

Charles A. Kimball, from Jan. 2, 1860, to June 29, 1864.

George C. Edwards, from June 29, 1864, to Jan. 6, 1868.

Marshall H. Clough, from Jan. 6, 1868, to Jan. 6, 1879.

Joseph A. Green, from Jan. 6, 1879, to Jan. 5, 1880.

Marshall H. Clough (2d time), from Jan. 5, 1880, to July 2, 1882.

Walter Henry Gilman (acting), from July 2, 1882, to July 11, 1882.

Frank Pierce Hill, from July 11, 1882.

The library occupied a room in the City Hall, until it was removed to its present quarters, in Hosford's stone-front block, in the months of January and February, 1872. The Board met last at the City Hall, Jan. 15, 1872, and first in the present place,

Feb. 19 of the same year. Already the new quarters have become too small. It will be necessary to add new shelves during the coming year, and probably the time is not distant when the institution will be obliged to find more commodious quarters. We do not advise that this be in any part of the new City Hall. If so, it will certainly have to move again and might as well be kept on wheels. We need a large, new building, worth at least seventy-five or a hundred thousand dollars. We do not expect that the City, with all its present necessary expenses, can build such a building immediately, but the time is coming when something of the kind must be done. Will any wealthy citizen come forward, and give us such a building?

The Library is increasing rapidly in size and influence. It is already known and recognized as a first-class institution of its kind. Its usefulness will depend upon conveniences in the way of a suitable building with good reference rooms. We should also have a public reading room; but that is simply impossible with our present accommodations. The reading public should never be able to reach the shelves themselves. No one but the Librarian and the assistants, with the possible exception of the Directors, should ever go to the shelves, but we have no room, at present, which could be used for a reading room, without the objections just noted. For the same

reason, we cannot well make the institution a free library, for the patrons would be likely to increase to such an extent as to render it impossible to accommodate them in our present location.

Mr. Hill, who was elected to fill the office of Librarian, July 11, of the current year, has proved a very able and efficient officer. With good judgment and unusually good executive ability, he has the added advantage of a fine collegiate education which enables him to perform the literary duties of his position with marked ability and promptness. His labors on the catalogue have been highly satisfactory and praiseworthy. He has more than fully realized all the bright hopes and expectations which were entertained respecting him, and it is to be hoped that the City may enjoy his valuable services for many years.

The mourning emblems which had hung in the Library in memory of Mr. Clough had not indeed been removed, before we were called to part with our able catalogue assistant, Mr. Horace F. Slocum, who died, in this city, of consumption, August 31, of the present year. He was a most excellent penman, a good grammarian and a faithful, conscientious clerk. He performed his duties to the very great satisfaction of the Board. It is proper here to bear testimony to our appreciation of his worth. Modest and diffident

in manner, one had to know him well to understand the meaning of his intelligent, appreciative, yet sensitive nature. His eye bespoke the intelligent, cultivated man that he was. His life was full of trouble. He drank long, full draughts of the bitter cup of sorrow ; but he never failed to try, and greatly beyond his strength, to do his duty by himself and others and to earn an honest living. He was greatly beloved by all the employés of the Library and by the few who were favored with his friendship, yet there was not a kinsman present to cheer his last days, though all that love and affection could do was done by true and devoted friends.

At a meeting of the Board, Sept. 13, Miss Harriet F. Hill was chosen as the catalogue clerk in his place. She is a lady of rare intelligence and a full appreciation of the nature of her duties. It was a new departure to employ a lady clerk, but we are convinced that it was a wise step, and are assured that her duties have been done in a thoroughly intelligent and satisfactory manner.

Our Library assistants, Messrs. W. H. Gilman and S. T. Wyman, deserve, as usual, much credit for their efficiency in the duties required of them. They are faithful in their labors and pleasing to the patrons. Mr. Gilman deserves an honorable mention, for the work which he has done for the institution in the way

of book-repairing. During the year he has repaired and partially rebound, with his own skilful hands, 616 volumes, saving the City an average of from twenty-five to thirty cents on every volume. He has thus saved to the institution, at the very least, a hundred and fifty dollars for purchases of books which would otherwise have gone to the binder. The fact that he possessed the necessary mechanical skill to do this work and the added fact that he was willing to do it merit our praise and approbation.

Early in the spring, Mr. Seward was enabled to buy, at a great bargain, a large portion of the library of the late Gen. James Wilson, of Keene, N. H., together with the valuable cases in which the books were kept. The books, which cost about sixty-five dollars, could not have been picked up in scattered sales except with great difficulty and expense. The cases, which cost us only ten dollars apiece, could not have been made for four times that sum, and they were precisely what we wanted for the card catalogue and will be used for that purpose.

Our thanks are due to the Interior Department, at Washington, for many volumes of rare and useful government publications, including the geographical and geological surveys of the Territories, the Smithsonian publications and collections, Congressional documents, state papers, valuable monographs of the plants and

animals of North America, the Patent Office Gazette, and many other publications, amounting to several hundred volumes. Our thanks are also due to Hon. William A. Russell, Representative in Congress from this district, for soliciting these volumes in our behalf and for sending us a copy of the very valuable Centennial Map of the United States, prepared under authority of Congress. Our thanks are likewise due to Mr. Samuel B. Simonds, of Lowell, for over a thousand valuable pamphlets, also to all of our local papers, both in the English and French languages, for all the issues of the year. We are also indebted to a large number of citizens for books and pamphlets and to other institutions, both in Lowell and elsewhere, a full acknowledgment of which is to be found in the list of donors appended to this report.

Our thanks are due to the City Council for their generous appropriation. Owing to the necessity for additional shelving and printing, we shall have to ask for an increased appropriation this year. We ought to have asked for it last year, but we have managed to keep within the sum set apart for us. We could only do so, however, by passing by many rare and valuable opportunities of adding good, second-hand books much needed. We often have rare chances to buy at auction, and should have the means to do so. Many books which ought to have been in the Library

years ago we can often buy at a great bargain in auctions. Such is particularly the case with town histories, which are in great demand by patrons, many of which we bought at a great discount, the present year. We respectfully ask of the new City Council to appropriate for all purposes, including repairs and improvements and catalogue work, fifteen hundred dollars more than were appropriated last year. Even then, we shall not have so much money for books as the library of the little city of Haverhill. We feel that the request is entirely proper and reasonable.

We append a list of the more important books in the various departments of knowledge added during the year.

GENERAL WORKS :

- A Monograph on Privately Printed Books. Tredwell.
- Enemies of Books. Blades.
- The Library. Lang.
- Words, Facts and Phrases. Edwards.
- Classification of Books. Smith.

PHILOSOPHY :

- Character Building. Barrett.
- My Portfolio. Phelps.
- The Order of the Sciences. Shields.
- History of Philosophy. Ueberweg.
- True Manhood. Johnson.
- Diseases of Memory. Ribot.
- Duty. Smiles.

The Law of Love. Hopkins.
 Amenities of Home. Sherwood.
 Common Sense about Women. Higginson.
 Conversation. Peabody.
 Moderation *vs.* Total Abstinence.
 Hours with Girls. Sangster.
 Human Life in Shakespeare. O'Reilly.
 English Philosophers. Monck.
 The Peak in Darien. Cobbe.

THEOLOGY :

The Sacred Tableaux. Wyatt.
 Studies in Science and Religion. Wright.
 Natural Religion. Seeley.
 The Faiths of the World.
 A Statement for not Believing the Doctrines of Trinitarians. Norton.
 National Religions and Universal Religions. Kuenen.
 The Light of Prophecy. Holbrook.
 Compendium of the History of Doctrines. Hagenbach.
 Apostolic Succession in the Church of England. Haddan.
 The Life and Epistles of St. Paul. Conybeare and Howson.
 The Great Awakening. Tracey.
 Catholic Controversy. Ryder.
 The Present Religious Crisis. Blanvelt.
 The New Testament.
 The Religions of China. Legge.
 Westminster Sermons. Stanley.
 Treasury of David. Spurgeon.
 Discourses on the Offices and Character of Christ. Ware.

SOCIOLOGY, INCLUDING LAW :

Notes on the History of Slavery in Massachusetts. Moore.
 Relation of Political Economy to the Labor Question. Wright.

Standard Measures of the United States, Great Britain, and
France. Wurtelle.
The Chinese. Martin.
Social Statistics of Cities. Waring.
The Science of Government. Alden.
Statistics in Relation to Gold and Silver. Farmer.
Hand-Book of Politics, 1882. McPherson.
Political Institutions. Spencer.
Civil Service Reform. "Simpleton."
Money, Trade, and Banking.
Oddities of Law. Heard.
Social Law of Labor. Weeden.
History of Free-Trade Movement in England.
Epoch of Reform. McCarthy.
Paladin of Finance. Jenkins.
Noted French Trials. Fuller.
Oriental Customs. Burder.
Elements of Field Fortification. Wheeler.
Elements of the Arts and Science of War. Wheeler.
Capital and Population.
Essay on the Law of Bailments. Jones.
Manual of the Railroads of the United States. 1882.

PHILOLOGY :

Early Spelling and Reading Books.
American Preceptor. Bingham.
Origin of Language. Monboddo.
The Reviser's English. Moon.
The Verbalist. Ayres.
English Synonyms.
A Guide to Conversation in the English and Chinese Lan-
guages. Hernisz.
Chinese Dictionary.
A French Grammar. Magill.
An English Grammar. Swett.

A Latin Grammar. Adams.
Normal School Grammar. Sanborn.
Elements of French Grammar. L'Homond.
Grammar of the French Tongue. Perrin.

NATURAL SCIENCE :

Essays on the Floating Matter of the Air. Tyndall.
The Order of the Sciences. Shields.
Ants, Bees and Wasps. Lubbock.
The Stars and the Earth. Hill.
Sparks from a Geologist's Hammer.
Trigonometry. Loomis.
Foot-Prints. Tytler.
Sounds and their Relations. Bell.
Theory of Color. Wilhelm von Bezold.
Hand-book of Field Botany.
Half Hours with the Telescope. Proctor.
Familiar Science Studies.
Half Hours with Stars. Proctor.
Science Ladders. No. III. D'Anvers.
A New Analysis of Chronology. Hales.
Seaside Studies in Natural History. Agassiz.
New and Complete System of Arithmetic. Dewey.
Arithmetic for Common and High Schools. Adams.
Course of Mathematics. Hulton.
System of Geometry and Trigonometry. Flint.
Hand-book of Invertebrate Geology. Brooks.
First Lessons in Algebra.

USEFUL ARTS, INCLUDING MEDICINE :

A Military System of Gymnastics. Farrow.
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All of which is respectfully submitted.

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WILLIAM N. OSGOOD,
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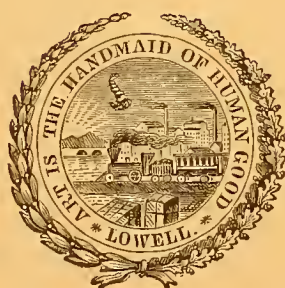
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	Vols.	Pamph.
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Tufts College	8
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“ “ Life Saving Service	1	. . .
“ “ Official Gazette, Patent Office	54
“ “ War Department	1	. . .
Varnum, A. C.	1	. . .
Woburn Public Library	1
Worcester Public Library	1
Total	83	1198

ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF LOWELL:
FOR THE YEAR 1882.



LOWELL, MASS.:
PRINTED BY CAMPBELL & HANSCOM, 22 CENTRAL ST.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 30, 1883.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, Jan. 30, 1883.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

OFFICE OF THE BOARD OF HEALTH, }
LOWELL, January 30, 1883. }

To the City Council:

GENTLEMEN — Sect. 4 of the Statute Law, establishing Boards of Health, enjoins that they “shall annually, in the month of January, present to the City Council a report made up to and including the 31st day of the preceding December, containing a full and comprehensive account of the Board during the year, and a review of the sanitary condition of the city.” In obedience to this order the following report is submitted: —

The Board organized on the 6th of February, by the choice of J. W. B. Shaw as chairman, and James W. Moulton as secretary. The work of the Board has been very similar to former years. The following topics constitute the principal items of business that have come before it:

REMOVAL OF ASHES, FILTH, GARBAGE, HOUSE DIRT, ETC.

By far the largest expenditure (\$6,270.20) under the direction of the Board is to secure cleanliness throughout the city. There were removed from the city 12,355 loads of filth, ashes, house dirt, etc., making twenty-five per cent more than last year. This arises from the extending limits of the city, and the increase of population. This work is very important, and, we believe, was thoroughly performed.

VAULTS, WATER-CLOSETS, ETC.

One of the most frequent complaints that come to the Board, especially in warm weather, is in respect to vaults leaking, or running over, or not properly ventilated. All such complaints have been promptly attended to. The rule adopted last year for cleaning vaults by the “odorless process,” has been faithfully carried out. The work has been carried on by two parties, bringing it into competition. Water-closets have been constructed in nearly all new buildings, and introduced in many blocks and houses already built.

REPORT OF THE

SWILL AND KITCHEN GARBAGE.

At one of the first meetings of the Board plans were considered for removing swill and kitchen garbage from dwellings, which is one of the worst nuisances in warm weather that the Board has to contend with. Also the question was considered of establishing a public bathing house, to be fitted up with bath rooms, with cold and warm water, and these to be used by the public on certain conditions, either free or charging a small fee. But when the City Council made the appropriation for the Health department only \$5,000 — being \$3,000 less than in 1881, and \$500 less than it actually cost to remove the filth and dirt from the city — the Board gave up all such plans.

CONTAGIOUS DISEASES.

The city was never so free from contagious diseases of a dangerous character as during the past year. The Board provided early in the year for free vaccination every day at the City Dispensary, but there was not a single case of small-pox or varioloid in the city. There were reported to the Board eighty-three cases of scarlet fever, some occurring every month, and in almost every part of the city; but only six deaths were reported,—a less number than for several years. There were seventy-eight cases of diphtheria, and eighteen deaths reported, occurring in many different localities. Measles did not prevail to much extent, certainly not in an epidemic form.

SEWERS, DRAINS, ETC.

The construction of sewers has been carried on vigorously during the year. There have been 350 permits granted to enter sewers, making a drainage for 752 sinks and 602 water-closets, into the sewers. Many of these were done by order of this Board. Fourteen tenement houses have been ordered vacated, and four families removed.

In the return of deaths from the undertakers, many certificates are returned without the signature of any physician vouching for the cause. The chairman of this Board has signed nearly two hundred of such returns.

HEALTH OF LOWELL.

The number of deaths last year was 1316, being thirty-two over that of 1881, and only seven over that of 1880. When the census was taken in Lowell, in 1880, the population was 59,475; and, by

the State Registration report of deaths, the ratio of mortality of Lowell was given as 22.06 deaths to each thousand inhabitants. Since 1880 our population has rapidly increased, and, according to the estimate of the best judges, it must now be about 68,000. This would make the rate of mortality 19.03 in a thousand, which is a great gain, and if it can be continued for several years it will place Lowell, as a manufacturing city, in a very favorable position in respect to its health. If the population has increased to 70,000, as some think, it would be still more favorable.

SANITARY SCIENCE.

Conceiving that the greatest good Boards of Health can do the public is to enlighten people generally upon the laws of health and life, the Board started, January 1, a monthly bulletin, in a tract form, of four pages, with an understanding that it would be reprinted in all the newspapers of the city. In this bulletin is found a report of the deaths for each month, with brief comments; also local items of special interest, together with short, instructive articles on health, such as would be read generally by the community. Thus by the newspapers reprinting this bulletin, it would bring in the course of the year a large amount of valuable information on health before many thousand readers. If such a bulletin could be continued a series of years, it would constitute not only a valuable city document on sanitary science, for reference, but comply in the best way with the law requiring a "review of the sanitary condition of the city." The Board, therefore, present a set of these bulletins as a part of their annual report.

EXPENDITURES.

Expenses of the Board of Health proper	\$700 00
Clerk hire	78 00
Printing and advertising	159 70
Horse hire	71 00
Public urinal	388 73
Collecting and removing ashes, dirt, filth, etc.	6,270 20
Public bathing	295 00
Free vaccination	248 55
Incidentals	44 31
	<hr/>
	\$8,255 49

BULLETIN NO. 1.

OFFICE OF THE BOARD OF HEALTH, CITY HALL, }
 LOWELL, Mass., Feb. 1, 1882. }

PROMOTION OF HEALTH.

The primary object of all Boards of Health is the prevention of disease. The modes of doing this are various. Among them the removal of filth, the building of sewers, the introduction of pure water, etc., are the most important. These agencies must be carried on by legislation and municipal authority. In this way the causes of disease on a large scale are reached, and, to a certain extent, may be removed. But in order to support these agencies and carry them out in detail, information on the subject must be generally diffused among the people. In no other way can this knowledge be so well communicated as by Boards of Health. It is everywhere made the duty of these Boards to report once a year, or oftener, to the public, on health matters, giving the "vital statistics," and such advice as the public may seem to require. In many instances these reports are largely made up of figures and tables, which may interest a few persons, but are not instructive to all classes. Both these objects are important, and should be secured as far as possible. We propose to issue, the coming year, a monthly bulletin, giving the mortality each month, together with such facts and comments as may exhibit the sanitary condition of the city. These bulletins will be printed in a form convenient for preservation, so that at the end of the year, when bound together, they will become valuable.

MORTALITY FOR JANUARY.

Accident	6	Enteritis	1
Apoplexy	4	Gangrene	1
Asthma	1	Hydrocephalus	1
Bronchitis	5	Hepatitis	1
Bright's Disease	1	Infantile	5
Cancer	2	Marasmus	1
Consumption	13	Meningitis	4
Cholera Infantum	1	Nervous Exhaustion	1
Convulsions	6	Old Age	11
Croup	3	Paralysis	4
Congestion of Lungs	1	Pneumonia	15
Diphtheria	2	Peritonitis	1
Diarrhœa	1	Parotitis	1
Debility	1	Scrofula	1
Disease of the Heart	5	Typhoid Fever	6
Disease of the Brain	1		
Erysipelas	1	Deaths	109
Embolism	1		

The mortality for January (109) is not large, compared with the same month in previous years, and considering, too, the increase of population. In 1880 the mortality was 107; in 1879, 105; in 1878, 64; and in 1877, 120. The report shows no epidemic, and is rather remarkable for having only one death each for eighteen distinct diseases. The largest number of deaths (15) — pneumonia — was in part the result of the intense cold snap. The same cause increased, undoubtedly, the list of “old age.” The ages of this class were as follows: 70, 71, 78, 80, 82, 83, 87, 89, 89, 97, and 102, making an average of $86\frac{1}{2}$. The number of children under 5 was 35,—a smaller per cent than usual. This is a good record.

CONTAGIOUS DISEASES.

This class of diseases includes those that are contagious or catching. This may be done by direct contact with the particles of matter caused by the disease, or by breathing in the atmosphere the smallest possible atoms emanating from the disease. The diseases caused in this way compose a very large class of complaints, especially of children. Some of these diseases are very severe and dangerous, and not unfrequently prove fatal, such as scarlet fever and measles in an epidemic form; while others, like whooping cough and chicken pox, are less dangerous, but very troublesome, and sometimes followed by grave results.

Once it was thought that all persons must, as a matter of course, have these diseases; that there was no escape; that it was much better for all children to have them early, as they were likely to prove more severe and dangerous in adults. So strong has been the conviction of the necessity of having these diseases, and that it was much safer to have them when young, that parents have sometimes rather exposed their children, or courted these diseases, feeling a great relief when they had once had them. Even policies for life insurance have had a question inserted, “Have the parties had the usual diseases of childhood?”

Now it is admitted by the best judges that these diseases are not necessary,—not a part of the order of nature or Divine Providence,—but may be or should be avoided or banished. If so, the reply on all sides, the universal verdict of all would be, let it be done. What a terrible sacrifice of human life does the scarlet fever or the measles sometimes produce, especially in an epidemic or malig-

nant form! The whooping cough is not so dangerous, but it is a most troublesome disease, sometimes a terrible siege to go through with, and very serious in its results.

Now if all these diseases can be prevented, and their dangers and bad results avoided just as well as not, is it not duty to do it? Will not every family and individual unite in helping to do it? Suppose there should be some exposure in making the ease known, some inconvenience, some trouble; but does not the public good require it? May not every family and individual be benefited, either directly or indirectly, by such a course? There can be but one opinion, one universal testimony, on this matter. Some inconvenience, some sacrifice, must be made for the general good. What, then, are the means necessary to use in preventing these diseases?

The first step is *isolation* in every ease. Let there be no exposure, no chance to communicate the germs of the disease to other persons. It is on this account that the law stipulates that every physician shall report cases of scarlet fever and diphtheria to the Board of Health. In certain forms this latter disease, diphtheria, is considered contagious and very dangerous. For two or three years this course has been pursued in our city, and, as a consequence, these diseases during this time have had a very slight run, and few deaths have occurred from them, compared with some former years. Scarlet fever and diphtheria have been singled out because they are more dangerous. Let the same course be pursued with reference to measles and whooping cough, and they would also subside from our midst.

SMALL POX.

Of all the contagious diseases most dreaded, is small pox. At no time for many years has it been so prevalent as the present winter. In some places where it has broken out the disease has been immediately checked and confined to one or a few individuals, while in others its ravages have extended, and may be still spreading. In New York and Chicago small pox has got a strong hold, and will prove very difficult to eradicate. In consequence of the great number of persons travelling, and the large emigration from across the waters, and especially from the Canadas and the Provinces, we are very much exposed to this disease. Lowell is peculiarly exposed to emigrants, constantly arriving here, and from the fact that great numbers, especially children, have never been vaccinated.

In 1871, when the small pox broke out here, vaccination had been greatly neglected. The disease had been spreading several months before decided and earnest efforts were made to suppress it. But when general vaccination was enforced, when every case was isolated, and disinfectants were thoroughly used, the disease subsided in a few weeks. In the meantime our city had had over five hundred cases of varioloid and small pox, attended with 173 deaths. The suffering, trouble, and anxiety attending the epidemic cannot be described; nor can the expenses and losses, private and public, be easily estimated. Such another epidemic in Lowell we should not care to encounter. The only means of prevention are vaccination. Every child and adult who never had this done successfully, should at once be vaccinated. We are liable any day to have the small pox here, and no one knows where it may first make its appearance.

That there may be no excuse, even among the poor, the Board of Health have made provision whereby this can be done free of expense. The City Physician will attend at the Dispensary, in the Market House, daily (Sundays excepted), from 12 to 1 o'clock, to vaccinate all who desire it. Others can call in their family physician, or go to the office of some physician and have it done. So important did our legislature some years ago deem this act, that it framed a law commanding the operation, and attached a penalty to its neglect. In 1871, when this epidemic prevailed here, several parties refusing vaccination were complained of, brought before the courts, and fined. At this time health and life were in immediate danger, and resort to law seemed absolutely necessary. Now is the time to comply with the law and avoid all danger from this terrible disease, which is far worse than the penalty fixed by law.

BULLETIN NO. 2.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., March 1, 1882. }

SANITARY SCIENCE.

This is comparatively a new science. The word *sanitary*, by itself, refers simply to health; but when combined with science, is far more expressive. It means the application of laws or principles for preserving health. It is the union of the two words that is new,

implying that there are certain agencies or laws in nature which can be employed to preserve health or prevent disease. To such an extent have these laws or principles been discovered and applied, and so surely and certainly have the same results followed, that they may be said to constitute a science, — the science of health. It is not necessary that these laws should be understood by everybody, and admitted as true, that they be considered a science; but that if they have been extensively applied by a large number of persons, and the same results never fail, they constitute, when combined, to all intents and purposes, a science.

It is not much more than thirty years since this subject began to attract general attention. The inquiry formerly among physicians, and all others, was how to *cure* diseases. The idea of how to prevent them, in single cases or on a large scale, was scarcely ever entertained. About half a century ago a few sagacious medical men, living in advance of their times, began to cherish some ideas on this subject. Among these was Dr. Elisha Bartlett, one of the earliest physicians in Lowell, and its first mayor, in 1836. In 1832, just fifty years ago, Dr. Bartlett started the publication of a monthly medical journal in Lowell, which was afterwards transferred to Boston. In urging upon the profession a more thorough knowledge of the causes of disease, he said: "The next thing to be done is to find out the best methods of modifying and preventing diseases. This is the great mission that lies immediately before us; this is to constitute the great work of the next and succeeding generations." About the same time, in Great Britain, Dr. John Forbes urged upon the profession special attention to hygiene, with the view of preventing diseases on a large scale, and individually, in their sphere of medical practice. "Here," says he, "the surest and most glorious triumphs of medicine are to be achieved."

The predictions of these two men are beginning to be verified, especially in Great Britain, where sanitary improvements are far more advanced than in the United States. The last Government Report on Health (1880-81), represents a steady decline in the death-rate, and estimates that from 1870 to 1880 "about a quarter of a million of persons were saved from death, and three millions have been saved from a sick bed," by these improvements. The death-rate for 1880-81, in England and Wales, was lower than it has been any year since 1837, when the registration report of deaths first commenced.

MORTALITY FOR FEBRUARY.

Accident	1	Embolism	1
Anæmia	1	Hydrocephalus	1
Bronchitis	1	Hemorrhage	1
Blood Poison	1	Inflammation of Bowels	2
Bright's Disease	1	Infantile	4
Cancer	2	Meningitis	5
Consumption	15	Old Age	1
Cholera Infantum	1	Paralysis	2
Croup	2	Parotitis	1
Debility	3	Pneumonia	4
Diphtheria	2	Puerperal	2
Disease of the Heart	7	Scarlet Fever	1
Disease of the Brain	3	Teething	1
Disease of the Liver	2	Typhoid Fever	7
Dysentery	1		
Erysipelas	1	Deaths	78

The number of deaths for February is rather small (78). The mortality for the same month in 1881 was 103, and the average for five years was 86. It is very evident there was no epidemic or prevailing sickness in the city. More than half the deaths occurred from chronic diseases. With the week closing February 25th, there were only fourteen deaths; during one week last year (in May) only, was the mortality so small. There were twenty deaths in February of infants under one year, and only one death from old age (87), against eleven in January. The number of deaths from typhoid fever (53), last year, was twice as large as it has been for many years. The report commencing January with six, and February, seven, looks as though for this year the mortality from this source was to increase. We would call the attention of physicians to a careful scrutiny whether the causes of this fever are local, or can be traced to any unsanitary conditions of the residence or surroundings where patients are found.

DEATHS IN LOWELL, 1881.

The city physician reports 1,287 deaths in Lowell in 1881. These deaths were the results of some sixty distinct diseases or causes, which are divided into five classes, viz.: Zymotic, 380; constitutional, 345; local, 431; developmental, 66; and accidental or violent, 65. This classification was made by the registrar general of Great Britain, from forty years' experience in reporting many millions of deaths, and is now generally adopted, both in Europe and in this country. This classification is a matter of great convenience, especially in discussing the causes of death and the prevention of

disease. The name of each class explains in part the character of its diseases.

The class designated zymotic attracts far more attention than either of the others, from the fact that its diseases are preventable,—are controlled by sanitary agencies. The term *zymotic* means ferment, or the germs of diseases that originate in fermentation, and are epidemic or contagious. This class embraces seven diseases, viz.: Small pox, scarlet fever, measles, diphtheria, whooping cough, enteric or typhoid fever, and diarrhœa or bowel complaints. These diseases prevail, sometimes in an epidemic or malignant form, and make a great amount of sickness. In most of these cases the germs of disease are communicated from one to another, and, when a few cases are once started, these diseases spread with great rapidity. The true course is to prevent the first entrance, and, if one case is started, use effectual means to stop it, isolate it, and cut off all communication with it.

The second class, constitutional, numbering 345 deaths, are considered rather hereditary in their origin, generally of a scrofulous or tubercular character, of which consumption takes the lead. The third class, designated local diseases, numbering 431, include diseases of the brain, of the nerves, and of individual organs. The fourth class, called developmental, numbered last year only 66, and embraces those diseases immediately connected with the birth and growth of the body. The fifth class is generally small,—only 65 last year,—and includes those deaths only caused by accident or violence. In these four last-named classes many deaths occur which might be prevented by seasonable care and observance of sanitary laws. By including these, and most of the first class—the zymotic—which are considered preventable, we have fully one third of all the diseases prevalent every year, which should and might be prevented, together with one third of the mortality. This would make a vast difference in the amount of suffering, expense, and loss of human life.

DIPHTHERIA AND SCARLET FEVER.

These diseases are more to be dreaded among children than any others. For the last two months only one death has occurred from scarlet fever and two from diphtheria. In 1881 there were twenty-seven deaths from the latter and nine from the former. The greatest possible pains should be employed by all concerned to prevent these

diseases. In certain forms both diphtheria and scarlet fever are almost sure to prove fatal, in spite of the best nursing and medical treatment. Such cases are wonderfully contagious. The most complete isolation possible should be used; also thorough disinfectants during sickness and after death. No public funeral in such cases should ever be held.

“Public health is public wealth.”—*Benj. Franklin.*

“The health of a people is really the foundation upon which all their happiness and all their power in a state depend, and, in my opinion, is the first duty of a statesman.”—*Lord Beaconsfield.*

“It may be taken as proved that, by sanitary measures, the common death-rates are reduced fully one-third in some urban districts of England over formerly existing rates.”—*Edwin Chadwick, Esq., the highest living authority on hygiene.*

In the expenditures of the Board of Health last year, one item of expense for collecting and removing ashes, filth, garbage, etc., from streets, courts, and alleys, was \$5,512.90. The City Council have just reduced the regular annual appropriation of the Board from \$7,000 to \$5,000.

BULLETIN NO. 3.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., April 1, 1883.

MILK COMMUNICATING DISEASE.

No single article of diet has so much influence upon health and human life as milk. It constitutes, nearer than any other, the natural food of man, and is especially adapted to infancy and childhood. So important are the sanitary influences of milk, that great pains should be taken to obtain it in its purity. While it may be subjected to some changes that are not really injurious, or serious in their sanitary effects, there are other changes that may produce most dangerous diseases. At the same time, it is difficult to detect many of these changes.

The quality or purity of milk may be affected in the following ways: The top of milk, after standing awhile, may be removed, producing what is called “skimmed milk”; then more or less water may be added to the milk; again, it may be adulterated with preparations of chalk, magnesia, starch, and soda, with burnt sugar and

salt, with arrowroot, with emulsions of almond or hempseed, and various other substances. The quality of milk depends much, also, upon the kind of cow, its age, its health, its care, its feed, etc. Swill, decaying vegetables, and mouldy hay make poor milk. If a cow is abused, is confined in bad air and filthy quarters, the milk is affected. Also, if the cans are not thoroughly cleansed, or they stand long in a cellar or room that is unwholesome; if the cow is sick in any way,— has the foot-and-mouth-disease, has inflamed udder or bag, or some internal disease,— the milk at once becomes affected. Suppose the dairyman's family has measles or scarlet fever, and the least particles of the disease get into the milk, from his clothing or in some other way, these diseases may be communicated. Cases have occurred, where the cans were washed with water from wells located near sinks, vaults and barnyards, of diphtheria and typhoid fever being communicated. If by heat or any other cause the milk has undergone some chemical or fermentative change, cholera infantum and diarrhœa may follow its use. The more this subject is investigated, the more important it seems that great care should be taken by the producers of milk to furnish a pure, wholesome article.

MORTALITY FOR MARCH.

Bronchitis	4	Hydrocephalus	1
Cancer	2	Infantile	4
Consumption	18	Inanition	1
Cholera Infantum	2	Jaundice	1
Croup	2	Marasmus	3
Convulsions	4	Meningitis	3
Cystitis	4	Nephritis	1
Debility	3	Old Age	4
Diarrhœa	3	Paralysis	2
Drowned	1	Peritonitis	1
Disease of Heart	7	Pneumonia	6
Disease of Stomach	1	Puerperal	1
Erysipelas	1	Thrombosis	1
Fistula	1	Typhoid Fever	3
Gastritis	1	Whooping Cough	1
Hemorrhage	1		
Hepatitis	1	Total	86

The mortality for March is comparatively small (86). Last year in March it was 109; in 1880 it was 125; and the average for five years is 102. The weather in March generally is very trying to all lung complaints, and the past month was not an exception. Of thirty-two distinct diseases or causes of death, in one-half of the cases there was only one death, which indicates a favorable state of

health. There was only one death from an infectious disease,—whooping cough. From this report it is evident that there was less sickness than usual at this season of the year.

UNSANITARY CONDITION OF OUR SCHOOL-HOUSES.

Not long since an article appeared in the Report of the State Board of Health, setting forth the unsanitary condition of some of our school-houses, which was not at all creditable to the city. This criticism was confined principally to the outside of buildings, — to their drainage, yards, water-closets, etc. It has been stated that there has been much improvement in these respects within a year; but a careful inspection of these houses, their cellars, yards, water-closets, and surroundings, will show, we believe, that some of them are very far from being in a healthy condition. There is no sphere or place in the city where the principles of sanitary science should be so faithfully applied as in our schools, and nowhere else would it yield such fruitful results in the physical health and mental culture of our people.

SANITARY RULES FOR THE PREVENTION OF SCARLET FEVER AND DIPHTHERIA.

The first rule is isolation or separation; the second, ventilation and cleanliness; and the third, disinfection. Patients should be placed in large, airy rooms, and, if possible, on an upper floor. The attendants should always be adults; children should be invariably excluded from the room, as they are most liable to take the disease. In scarlet fever, the mildest cases may spread its fatal infection and cause the most malignant form of the disease. In diphtheria, the malignant or putrid type is the most infectious. The breath of such patients should be avoided as much as possible.

In scarlet fever, the danger of communicating the infection remains after convalescence. Just as long as the skin is desquamating or peeling off, these particles will communicate the disease. Greasing or oiling the skin serves to prevent this diffusion. Clothing, furniture, bedding, carpets, rugs, etc., will retain these infectious particles a long time. Attendants and nurses handling scarlet-fever patients, should be careful to change or disinfect their clothing before mingling with children or even adults. Rooms should be most thoroughly ventilated every day, and, after recovery of the patient,

or in case of death, disinfections should be used for some time. The rooms should be vacated and thoroughly smoked with sulphur. Solution of sulphate of zinc should be sprinkled on the floors, and the lower parts of the rooms. All books, papers, toys, and other articles used by the patient, should be disinfected. In case children have been exposed to scarlet fever or diphtheria, before the disease becomes known, they should be kept at home, should not be allowed to associate with other children or go to school, till it is certain the exposure will not develop the disease. The greatest possible enemy or destructive agent that could enter a school-room is one of these diseases. When a child dies with scarlet fever or diphtheria, the body, in case of a funeral, should be disinfected; and even then, no part of it should be exposed to public inspection, as some of the worst cases of these diseases have been thus communicated.

SPRING CLEANING.

This is the season of the year for *cleaning*. Inspiration says, "Cleanliness is next to godliness." It is certainly indispensable to good health. Not only the inside of the house should be thoroughly cleaned, every part of it, but the cellar, the yard, the court, and every part of the surroundings. All filth and ashes, all garbage and decaying vegetables, all refuse and useless matter of every kind, should be removed far away; then disinfectants should be carefully applied. Let solutions of lime, copperas, or carbolic acid be freely sprinkled upon all places or parts where fermentation has been going on, or where any unwholesome smell has arisen,—especially about cesspools, sewers, sink-spouts, water-closets, etc. Let these directions be faithfully followed, and a great amount of sickness and disease will be prevented.

ORDINANCES RELATING TO HEALTH.

SECT. 10. No person shall remove or carry through any street, alley, or public place in the city, any house-dirt, offal, filth, rubbish, contents of any privy or vault, or waste matter of any kind, from any dwelling-house or other place, unless the owner or driver of the cart, wagon, or other conveyance in which the same be carried, shall be licensed for such purpose by the Board of Aldermen.

SECT. 11. No person shall cast any vegetable or dead animal substance into any street, lane, passageway, cesspool, or sewer, nor into any of the wells, cisterns, reservoirs, ponds, canals, or waters within the city, nor

cause any animal to be drowned in said waters. Nor shall any person place, sweep, or deposit any dirt, sawdust, soot, ashes, cinders, shreds, shavings, hair, manure, oyster or lobster shells, or any rubbish, offal, or filth of any kind, in or upon any public highway, street, sewer, sidewalk, court, passageway, or public place, without a written license from the Board of Health.

SECT. 12. No person shall bring into the city for sale, nor offer for sale, any diseased, unwholesome, stale, or putrid meat, fish, or other article of provisions, nor any fish, except fresh salmon and shad, and except smelts and other small fish, which shall not first have been cleaned of their entrails and refuse parts.

BULLETIN NO. 4.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., May 1, 1882. }

TENEMENT BLOCKS.

Lowell has had boarding-houses of all kinds from its first settlement, but no tenement blocks, strictly, till within a few years. As such blocks in other cities have been found most prolific sources and causes of disease, it is the dictate of wisdom and prudence that their character be well understood, especially as the erection of these buildings seems on the increase in the city. It is singular that the first experience Lowell had in this direction was on so large a scale as "Little Canada" presents. It is thus described by an agent of the State Board of Health, and published in the report for 1880:—

"Its area is less than two acres; its population, according to the census just taken, is 1,076 souls, who live in twenty-four tenement houses. In addition to these are one unfinished tenement house, five stables, eight carriage and wood-sheds, one bake-house, and sixteen privies or slop-hoppers, the two latter having 115 divisions. The one tenement house yet unfinished is, in construction, of the worst pattern,—the ground floor of one entire end of the building being occupied by privies, built into the house, and having sleeping rooms overhead. The buildings are most of them three stories or less in height, and are so close together that it is difficult to pass between them.

"There are others (and with windows, too), so near on the side next to the neighboring building that a person cannot pass between, where the eaves overlap, and the rooms are dark at three P. M. One of the newest buildings in Little Canada—a huge three-story, flat-roof caravansary, 206

by 44 feet — has a population of 396 persons. Every tenement in this building (four rooms usually, except the end ones), has two dark rooms, lighted by small, high windows into the kitchen only; and totally dark, unventilated rooms are not infrequent through the entire district."

The average cubic feet of air provided for the breathing of each occupant will not much exceed 200 feet; whereas the lowest estimate for good health is from 500 to 600 feet. When these tenements are fully occupied, it makes the densest population in the United States, except a district in Ward four, New York.

No fact in the history of sickness or reports of mortality is better established than that such tenements and districts are the hot-beds of disease, especially in summer. Infants die by the score with cholera infantum and bowel complaints. Should scarlet or typhoid fever, or diphtheria break out in a malignant form, they would spread like a pestilence. Such tenements as the above cannot now be built in New York or Boston, as the law provides for ventilation, regulates the privies, requires a certain distance between tenements, and allows only a little more than half of the land to be covered with the building. It is unfortunate that Lowell has not such a law, as several tenement blocks are being built in the city

MORTALITY FOR APRIL.

Accident	1	Hepatitis	1
Ascitis	1	Hydrocephalus	2
Apoplexy	1	Infantile	6
Bronchitis	3	Malaria	1
Burns	2	Marasmus	1
Convulsions	7	Old Age	4
Consumption	21	Paralysis	5
Cystitis	2	Pericarditis	1
Croup	2	Peritonitis	1
Debility	6	Pleurisy	1
Diphtheria	1	Pneumonia	5
Disease of Heart	5	Scarlet Fever	1
Disease of Brain	4	Scrofula	1
Disease of Liver	1	Typhoid Fever	2
Disease of Kidney	1	Whooping Cough	4
Disease of Bladder	2		
Gastritis	1	Total	97

The mortality for April (97) is not large compared with previous years,—1880, 105, and 1881, 111,—considering we have quite an increase of population. The character of the mortality is still more favorable. There were fifteen deaths of persons over seventy years of age, including two at eighty-five and one at ninety-four; with only

twenty-seven under five years of age. Consumption makes one-fifth,—about the usual proportion; and the next highest—convulsions, 7—is large. The most of these were under one year old, and the disease might have originated from teething, indigestion, or some other complaint. Only six deaths occurred from contagious diseases,—scarlet fever, 1; diphtheria, 1; whooping cough 4,—which is quite unusual. This should not be. Whooping cough might and ought to be exterminated from the city. Let the same means of isolation and prevention be applied as are practiced in reference to scarlet fever and diphtheria, and a few months would banish whooping cough. One of the typhoid fever cases came from the upper part of Middle street, where complaints for years have been made of the bad drainage and sewerage. Two other cases of fever in the same house recovered, one being treated at St. John's Hospital.

NUISANCES.

Complaints are frequently made in this or that neighborhood of the air being rendered impure or unwholesome, from various causes. If this occurred only occasionally, or arose from causes that could not easily be removed, like a malarial region of the country, such a condition of the atmosphere might be tolerated; but when the change occurs from some business or establishment, conducted for the profit of an individual or company, such a nuisance can readily be abated. In villages and cities, where the health, comfort, and interest of great numbers are affected, the question becomes very important. Pure air is as much an inalienable right of every man, woman, and child, as life, liberty, and the pursuit of happiness.

The law is very broad and explicit on this subject. The chancellor in a neighboring state, in his rulings lately in two important cases, defines the law as follows: "Any trade or business, however lawful, which, from the place or the manner in which it is carried on, materially injures the property of others, or affects their health, or renders the enjoyment of life physically uncomfortable, is a nuisance which it is the duty of the court to restrain." Again: "The law takes care that lawful and useful business shall not be put a stop to on account of every trifling or imaginary annoyance, such as may offend the taste or disturb the nerves of a fastidious or over-refined person. But, on the other hand, it does not allow any one, whatever his circumstances or condition may be, to be driven from his home,

or be compelled to live in positive discomfort, although caused by a awful and useful business carried on in his vicinity."

Many years since, Judge Shaw, of this state, in defining what constitutes a nuisance in the eye of the law, that should be abated, says : "It is not necessary that the corruption of the atmosphere should be such as to be dangerous to health ; it is sufficient that the effluvia are offensive to the senses, and render habitations uncomfortable."

It will thus be seen that it is not necessary to prove that health and life are endangered by a nuisance — upon which there might be difference of opinion among physicians — but does it injure property? Does it render the enjoyment of life physically uncomfortable? Does it produce effluvia offensive to the senses and render habitations uncomfortable? Expert testimony is here of no avail. The law is clear and explicit, and, as every one will admit, based upon justice and common sense.

SANITARY INSPECTION.

One of the first and most important advantages for health is that every dwelling-house be carefully inspected in reference to its sanitary condition. As the causes of disease become better known and the value of health appreciated, such inspection will be sought more and more by all intelligent persons. It is not to look after the ventilation of the dwelling, so much as the drainage and sewerage,—to see that there is no filth, leakage, or poisonous gases here to endanger life. To make such examination advantageous, it requires that the inspector be thoroughly familiar with sanitary laws.

In some places in Great Britain and in the United States this sanitary inspection is becoming quite common. For this purpose sanitary engineers are employed. In some places associations are formed with this object in view, and in other places the work is performed by boards of health. In several cities and states the question has been raised that an order or law ought to be enacted that no new dwelling-house should be occupied until its sanitary conditions and surroundings be approved by an engineer or officer of health appointed for this purpose.

BULLETIN NO. 5.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., June 1, 1882. }

DENSITY OF POPULATION.

All experience proves that the more dense is population the greater is the amount of sickness and mortality. In the growth of cities, where dwelling houses and tenement blocks are being rapidly built, there is great danger of crowding people into close and unhealthy quarters. The foundation is now being laid in certain localities of Lowell for most serious evils of this character. This is a very important question, and the evil effects will be developed when the causes cannot easily be removed. Blocks have been and are being built to rent, so located and so constructed as to contain the greatest possible number of inhabitants, and which must become the *hot-beds of disease*.

Some of these blocks cover nearly all the land owned by the proprietors in the neighborhood, leaving but little space between buildings for sunlight or the circulation of the air. Some blocks are built three or four stories in height, are low-studded, with small rooms and no provisions made for ventilation. Large portions of these buildings are so situated that they can never receive the direct rays of the sun, and many rooms must be altogether too dark for comfort or health. As the object is to get the greatest possible income from the investment, every room must be occupied — some with several persons — and whole families will be crowded into three or four small rooms. As a consequence, these houses will be filled by the poorest and lowest classes in the community, whose manner of living and habits, to say the least, are not always productive of health.

In this state of things these tenements will have the most dense population that can anywhere be found, and as a consequence will be attended with the greatest violation of sanitary laws. Such places become in time the fountain-heads of disease, where its germs are generated and fertilized by filth, impure air, and poisonous gases. Here sickness and death count their victims by the score. In the great city of New York more than half its mortality has occurred some years in tenement blocks. The same fact was found true in Boston some years since, when its death-rate was becoming alarming.

Attempts are now being made at immense cost, by legislation, by boards of health, and other means, to remedy these evils. Must Lowell have a similar experience?

MORTALITY FOR MAY.

Apoplexy	2	Hydrocephalus	1
Anæmia	1	Infantile	7
Bronchitis	3	Marasmus	2
Burns	3	Meningitis	5
Cancer	1	Old Age	4
Cellulitis	1	Paralysis	3
Consumption	22	Peritonitis	1
Convulsions	1	Pneumonia	10
Cystitis	1	Scarlet Fever	1
Debility	3	Spinal Disease	1
Diphtheria	1	Suicide	2
Disease of Heart	6	Teething	2
Disease of Brain	2	Typhoid Fever	12
Disease of Liver	3	Ulcer	1
Enteritis	1		
Erysipelas	1	Total	104
Gastritis	1		

The mortality (104) for May is large, compared with former years. The average for five years is only 86, though it was 101 in 1881. The number this May, considering the increase of population, is not relatively so large as last year, but the character and type of the diseases are not so favorable. Consumption (22) composes about one-fifth, the usual proportion; but that twelve should die in May with typhoid fever is something remarkable. Then, that nearly all the diseased should be so young, as the following ages indicate, is strange: 11, 12, 13, 14, 14, 16, 17, 21, 21, 21, 21, and 35. As typhoid fever generally includes an older class, we cannot account for this record. Besides, the type of the disease was more fatal than usual, from all we can learn. That there should have been, also, ten deaths in May from pneumonia is a question hard to solve. The number of deaths under five years (26) being only one-third, is quite small.

DEATHS IN DIFFERENT PARTS OF THE CITY.

The report of the City Clerk on the mortality of Lowell, just published, presents some very instructive facts. We have here not only the number of deaths in each ward, but the number in each census district, with the population. By this means we find the sickly

localities, and the places where health is best preserved. One year is not a fair test, but a series of years would settle the question. The rate of mortality in 1881, for the whole city, was 21.63 per thousand, based upon the population of 1880 (59,485), but with 5,000 added, the rate would exceed but little over nineteen in a thousand. This rate would compare very favorably with that of other cities.

In the several wards the death-rate does not differ so much as in the various districts of each ward. The rates in wards 1 and 3 are almost alike, viz.: 19.71 and 19.81. In wards 2 and 4 the rates are still nearer alike, 17.01 and 17.00. In wards 5 and 6 the death-rate is higher than either of the other wards,—the rate in Ward 5 being 23.56, the highest in the city, and in Ward 6, 22.30. The mortality in this ward was considerably increased by the sixty deaths in St. John's Hospital. Still the rate of mortality in each of the four districts in Belvidere is higher than one would suppose, considering the high ground and character of the population. Of the twenty-six districts into which the whole city is divided, there are thirteen in the other five wards that report a lower rate of mortality than either one of the four in Ward 6. This holds true, even considering the deaths in St. John's Hospital.

One district compared with another, presents some striking facts. In Ward 1, the district (No. 2) north of Merrimack street, and west of Suffolk canal, including the houses of the Tremont, Suffolk, and Lawrence Corporations, reports a death-rate of only 10.12; whereas, the district (No. 5) in the same ward, between Merrimack, Suffolk, Broadway, Adams, and Cabot streets, reports a death-rate of 34.41—three times as large. This district includes what is called the "Acre," and is very densely populated. The next highest rate of mortality is District No. 19, in Ward 5, thus described: north of Merrimack and west of Cabot streets, including "Little Canada." The death-rate was 29.91,—almost thirty in a thousand. Ward 4 is the banner ward for health, the death-rate being only seventeen in a thousand, which is lower than most country towns in the state.

SANITARY INSPECTION.

As hot weather is approaching, when there is usually a great increase of sickness and mortality among children, especially in certain localities, the Board of Health propose to make a careful inspec-

tion, in June, of many of these places. By such inspection very much sickness may be prevented. Sometimes the causes of disease can be easily removed. An ounce of prevention is better than a pound of cure.

ADULTERATED MILK.

The law against adulterating milk in any manner or form is very stringent. This should be so on an article constituting such an important item in diet, and especially in that of children. On the 28th of May, John Mabon, of Chelmsford, was brought into our police court, charged with watering milk. Inspectors Shaw and McCaffrey, hearing something wrong about his milk, went, May 16, to his barn in Chelmsford. Specimens of the milk were taken to W. P. Atwood, chemist on the Hamilton Corporation, who found only 8.60 per cent of solid matter. Mabon was fined fifty dollars and costs. It is reported that there are other milkmen doing the same business. They will be pretty sure to get fined one of these days.

BULLETIN NO. 6.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, Mass., July 1, 1882. }

INFANT MORTALITY.

“*Slaughter of the Innocents.*” Paragraphs with this heading go the rounds of the newspapers almost every summer. This phrase — “slaughter of the innocents” — suggests at once, who are these “innocents,” and who “slaughtered” them? When such things occur at a great distance, and by means of some terrible accident or epidemic, the impression passes off almost with the hearing; but when they occur in our midst, and within our own personal knowledge, its effect is quite different. What, then, are the facts? It is the infant mortality that has for years so largely increased our death-rate. Last year, of 1,287 deaths, 493 were reported under five years of age; and in 1880, out of a mortality of 1,309, there were 664 (more than half) reported under five years of age. For the last five years the number of deaths under this age count up 2,373; that is 38 per cent of all. The larger proportion in this list, 1,490, died under one year of age; that is 24 per cent, almost one-fourth of our whole

mortality. Now what were some of the reported causes of such a destruction of life? Cholera infantum counts 483; infantile — that is, defective organization or want of vitality — 291; diseases of brain, 344; marasmus — that is, wasting away or want of nutrition — 127. Most of these causes apply to those dying under one year of age. The balance of the list under one year, and between one and five years, died from a variety of other diseases.

Now where in the city did this mortality take place, and who were the parents of these infants? A few died in good families, living in healthy localities; but the majority died in tenement houses and in unwholesome quarters, in narrow streets and alleys, in small courts and back-yards, in places where sanitary laws are grossly violated. Many of these “innocents” died for lack of nourishment, care, cleanliness, and pure air. The deaths of some were occasioned by the intemperate habits of parents; of others, by the neglect of mothers working in the mill; and others still, after a feeble existence of a few days or weeks, died from inherited diseases. Why this great waste of human life? It certainly would not have occurred had the laws of health and life been observed. Who, then, “slaughtered these innocents”?

MORTALITY FOR JUNE.

Accident	6	Hydrocephalus	1
Apoplexy	2	Hepatitis	1
Asthma	1	Infantile	1
Bronchitis	5	Marasmus	1
Bright's Disease	2	Measles	1
Cancer	1	Meningitis	4
Consumption	18	Old Age	2
Cholera Infantum	4	Paralysis	2
Convulsions	7	Peritonitis	1
Croup	1	Pneumonia	7
Debility	3	Rheumatism	1
Diphtheria	1	Suicide	1
Diarrhœa	1	Scrofula	2
Disease of Heart	2	Teething	1
Disease of Brain	3	Typhoid Fever	6
Disease of Liver	2	Uræmia	1
Disease of Hip	2		
Disease of Spine	1	Total	97
Enteritis	2		

The mortality for June (97) is about an average,—not high nor low. In 1880 it was 103 in June, and in 1881 it was only 86; but our population has considerably increased. June is usually the healthiest month in the year, coming between winter and summer complaints.

No particular disease prevailed. Of the thirty-four diseases or causes of death, we find sixteen (almost one-half) reporting each only one death, which indicates a favorable sanitary condition of the city. Next to consumption (18) we find seven put down to pneumonia, which is accounted for by the cool weather of June, especially its nights. Typhoid fever reports six, which makes thirty-four deaths in the past six months from this fever. It indicates that this fever continues quite prevalent in the city. We would urge the profession to inquire particularly into the causes of this disease as it exists in the city. This month, June, completes the first half of the year 1882. The whole mortality (601) is only two greater than last year at the same time; and the number under five years of age (190) is precisely the same. We have had only three deaths from scarlet fever, and six from diphtheria, which is rather remarkable. The season or year thus far has been quite healthy; but if we have much hot weather, disease and mortality will rapidly increase.

CLEANING OF VAULTS.

It is just one year (July 2, 1881) since an order passed the Board of Health, requiring the vaults in the city to be cleaned out by the "odorless process." For some months there have been two machines doing the work; so that it is not a monopoly, but is open to competition, even to the introduction of more machines. The experiment has proved, thus far, very successful. The great majority of our citizens could not easily be persuaded to go back to the old system.

As it is required by this process that vaults must be cleaned out in the day time, the first impression is unfavorable; but on examination it will be found that it has certain advantages. Much better help is secured by day for the work; they can be made more responsible, and their work more easily overseen. Whereas, if the work is done by night, it cannot be so carefully watched. Again, if this business is carried on in the night, as formerly, — when there is less motion of the air, when carbonic acid and sulphuretted hydrogen — heavier gases than the atmosphere — are freely generated, and tend to settle near the earth and penetrate into dwellings, — the odor becomes not only disagreeable, but the breathing of such air is very unhealthy. In the day time we have the advantages of the sun, a better circulation of the air, and, by a free use of disinfectants, the odor and poisoned air soon disappear.

MILK WATERED.

In the Health Bulletin for May a case was reported of a milkman being fined for watering his milk, and it was intimated that others might be doing the same thing. Since then three more milkmen have been proved guilty in the police court of watering their milk, and were fined fifty dollars and costs for the offence. It is said that milk is quite scarce this season, and to make the supply equal to the demand, it must be watered. Let other milkmen take warning.

ADULTERATION OF FOOD.

The last legislature passed the following acts in reference to adulterating food: (1) "If any substance or substances have been mixed with it so as to reduce, or lower, or injuriously affect its strength or quality. (2) If any inferior or cheaper substance or substances have been substituted wholly or in part for it. (3) If any valuable constituent has been wholly or in part subtracted from it. (4) If it is an imitation of or is sold under the name of another article. (5) If it consists wholly or in part of a diseased, decomposed, putrid, or rotten animal or vegetable substance, whether manufactured or not; or, in the case of milk, if it is the produce of a diseased animal. (6) If it is colored, watered, polished, or powdered, whereby damage is concealed; or if it is made to appear better or of greater value than it really is. (7) If it contains any added poisonous ingredient, that may render it injurious to the health of a person consuming it. Every person offering, or exposing for sale, or delivering to a purchaser, any article of food included in the provisions of this law, shall be punished by a fine not exceeding fifty dollars for the first offence, and not exceeding one hundred dollars for each subsequent offence."

BATHING.

In warm weather bathing is an important sanitary agency. For several years some public provision has been made by the city for this purpose. The best place, and the one most visited, on the Merrimack river, above the Lawrence Corporation, is entirely broken up by the building of the Aiken-street bridge. Provision cannot safely be made above this spot, on account of the unevenness of the bed of the river.

Last year the bathing-house on the Concord river could not be used, in consequence of the filthiness of the water. Such is the increased quantity of sewage emptying into this river, that the water has become very much polluted, and is entirely unfit for bathing purposes. The Board of Health has made careful examination of the Concord and Merrimack rivers, and also of the canals, but cannot find a suitable and at the same time an available place for making provisions for public bathing.

BULLETIN NO. 7.

OFFICE OF BOARD OF HEALTH, CITY HALL. }
LOWELL, MASS., Aug. 1. 1882. }

SANITARY SCIENCE AND MANUFACTURING.

In applying the laws of health and life for the prevention of disease, new principles are frequently brought to light. Pure air, pure water, and a pure soil, are indispensable for good health, and these should never be poisoned by human agency for individual interests or selfish purposes. Within a few years there have been made great advances of knowledge in this direction, and considerable new legislation has taken place on this subject. In Great Britain matters of this kind are far more advanced than in this country. A series of acts, passed by Parliament, are called "Factory Laws," and a government inspector is appointed to see that these laws are observed. Under one of these laws a case—the first of the kind—has just been tried in the courts, charging that there were so many operatives confined in one room, and there was such want of ventilation, that the air in the room was kept so impure that the health and lives of the operatives were as a consequence endangered. These facts were proved before the judge, who, as the record reads, "having ascertained what the lowest recognized cubic space per head for places of the same class was, decided that the defendant must supply three hundred cubic feet per head, with proper means of ventilation, and imposed a fine of two guineas and costs, and with a cumulative fine of one pound per day till the cause was removed."

The principle here established has a very important bearing upon the sanitary interests of every manufacturing city. If a thorough

inspection should be made into all our mills and shops, it would be found that the health of many operatives and mechanics was suffering from working in too crowded rooms, and from impure air. It would be found that in many quarters there was a great want of proper ventilation; that in basements and lower floors there is frequently a dampness that is unwholesome; that in some rooms the temperature is too high, and in others too low for health; and that, in certain kinds or stages of manufacturing, the air is impregnated with steam, vapor, gas, or particles of matter that are injurious to health. While it may not be easy to remedy all these evils, yet, when the principles of sanitary science become better understood, far greater attention will be paid in every kind and department of manufacturing to those laws the violation of which impairs health and shortens human life. New legislation, as a matter of course, will follow. The employe should not run all the risk in the exposure, but the employer or contractor should also be held more or less responsible.

MORTALITY FOR JULY.

Accident	6	Gastritis	1
Apoplexy	3	Gangrene	2
Aneurism	1	Hemorrhage	2
Burns	2	Hæmoptisis	1
Cancer	3	Hydrocephalus	3
Consumption	13	Infantile	10
Cholera Morbus	5	Lungs, Congestion	1
Cholera Infantum	39	Marasmus	1
Convulsions	6	Meningitis	4
Croup	3	Old Age	2
Debility	4	Paralysis	2
Disease of Heart	3	Pneumonia	2
Disease of Brain	4	Teething	1
Disease of Liver	1	Typhoid Fever	1
Disease of Spine	1	Uræmia	1
Drowned	2	Ulceration	1
Erysipelas	1		
Enteritis	2	Total	134

The deaths in July, 1880, were 135, and in 1881 they were 144; so that 134 deaths, with an increase of population for 1882, is below the average. Next to August, the mortality is always the largest of any month in July. Omitting the cholera infantum cases (39), which occurred mostly in ten days and were almost the only deaths peculiar to the season, the month was remarkably healthy. Then there were ten deaths from accident, burns, and drowned. There was only one death from typhoid fever, and none from infectious disease, unless it

were three in five days, in one family, from malignant croup, which was an extraordinary occurrence that the attending physician should explain.

LOWELL FELTING MILLS.

Early in April, a petition signed by over thirty persons, owners of real estate, was presented to the Board of Health, complaining that the "Felting Mills," situated on Pawtucket street, were a public nuisance. This petition represented that these mills rendered the air so foul and impure as to injure health, and make residence in the neighborhood uncomfortable; and also to depreciate the value of real estate. The Board of Health made a careful examination of the premises, and was satisfied that there were just grounds of complaint, and gave Mr. Thompson, the owner of these mills, notice that this nuisance must be abated.

One source of complaint was that from the hair spread over plots of ground, for being cured and dried, hairs and lime-dust filled the air in the neighborhood at times for quite a distance. The Board found, also, a large quantity of refuse decomposing matter in the yard adjoining the mill, which emitted a most disagreeable and unwholesome odor. These two grounds of complaint are now removed. As to the dust and bad odor generated inside of the mill in the process of manufacturing, Mr. Thompson has attempted, by pipes and tubes, to destroy this, by conducting it into the furnace, or by giving an outlet through a tall chimney. More than a thousand dollars, it is understood, have been expended in this work, under the direction of the best artists that could be obtained; but it is an experiment, and may fail. Time alone can determine its success.

The fact that no public complaint has been made before, during the seventeen years of the running of these mills, affords no claim of their continuance. It should be borne in mind that injury of health is not the only point at stake, but the courts have settled this question of nuisance upon two other points: 1. "Are the noxious smells of such a character as to be so offensive to the senses as to render the enjoyment of life uncomfortable?" and 2. "Do they materially injure the property of others?" In making complaint against any supposed nuisances, these are the questions to determine. If these charges can be substantiated, the nuisance must be abated or removed.

In regard to the Felting Mills, the Board of Health does not, by any means, consider the question as settled; that, while some grounds

of complaint may be abated, still the mills are on probation, and the future must determine the result. The mistake made was that such mills should ever be located in a city. The law will not allow any kind of business to be carried on for private emolument, whereby the interests of great numbers are sacrificed. This remark will apply with equal justice to certain other nuisances in the city.

VACATING TENEMENTS FOR HEALTH.

While neither the Municipal Government nor the Board of Health have any power (which they should have) to regulate the construction of houses with reference to health, the latter can vacate them when deemed necessary, under the following statute law:—

“The Board of Health, when satisfied, upon due examination, that a cellar, room, tenement, or building, occupied as a dwelling-place, has become, by reason of the number of occupants, want of cleanliness, or other cause, unfit for such purposes, and a cause of nuisance or sickness to the occupants or the public, may issue a notice in writing to such occupants, or any of them, requiring the premises to be put into a proper condition as to cleanliness; or, if they see fit, requiring the occupants to quit the premises within such time as the Board may deem reasonable. If the persons so notified, or any of them, neglect or refuse to comply with the terms of the notice, the Board may cause the premises to be properly drained at the expense of the owner, or may remove the occupants forcibly and close up the premises; and the same shall not again be occupied as a dwelling-place without the consent in writing of the Board. If the owner thereafter occupies, or knowingly permits the same to be occupied, without such permission in writing, he shall forfeit not less than ten, nor more than fifty dollars.”

CLEANING OF CESS-POOLS.

Complaints have been made of the manner in which cess-pools are sometimes cleaned out. This work is done by the city. It is well known that cess-pools, especially in certain localities, become filled up with very filthy matter, with decaying vegetables, and other unwholesome refuse thrown into the street. It is surprising what a large quantity of this foul material some of the cess-pools hold. Now, not unfrequently, after this is thrown out and spread over considerable surface, exposed to a hot sun, in the immediate vicinity of dwellings and shops, and within a few feet where many persons are constantly passing, this foul matter is permitted to remain several hours, or half a day or more at a time. This is wrong and unnecessary. It is not only disagreeable, but might communicate dangerous diseases.

BULLETIN NO. 8.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., Sept. 1, 1882. }

DRAINS AND SEWERS.

The most important of all sanitary agencies are found in a clean soil, clean streets, clean houses, clean water, and clean air. These cannot be obtained without drains and sewers,—even pure air and pure water. Drains are necessary to cleanse the surface of the earth of filth; and sewers, to carry this, with other noxious matter, off to a distance, or dispose of it in a manner where it can do no hurt. In cities drainage and sewerage are indispensable. The natural soil of Lowell, being dry and gravelly, is favorable to health, and the unevenness of the ground makes it easier to obtain good drains and sewers. Besides, it has another advantage,—running streams of water, by means of which filth and all unwholesome matter can readily be carried off. But to do this thoroughly and in the best possible manner, requires much thought, labor, and expense.

In the early history of Lowell very little attention was paid to this subject. The first expenditure in this direction is found in the auditor's report for 1839, when some five thousand dollars were expended upon sewers. From this date the expenditures increased slowly, year by year, so that in 1871—covering over thirty years—it amounted in that year to only \$16,000. But in 1872 it nearly doubled (\$30,000), and in 1873 it again more than doubled, being \$65,000. This great increase was occasioned in part by the introduction into the city of Merrimack river water. It cost some \$2,000,000 to introduce this water, which was the best sanitary investment the city ever made; but when it has done its work, we find it costs something to carry this water off, though in a very different state from what it was when entering the city.

From the last auditor's report, it appears that \$73,954 were expended in 1881 upon sewers, and the whole cost of sewers to the city previous to that date was \$621,660. At the commencement of this year the appropriation for sewers was \$68,000, which has already been expended, and the City Council has just appropriated \$30,000 more. This, at the close of the year, makes the whole expense of sewers \$793,614. But in addition to this sum, the city voted last year to borrow \$150,000, on a long term, to be expended upon a very large sewer, starting in the Highlands of Ward 4, passing through

Wards 3 and 6, entering into the Concord river near the Middlesex Mills. Some people complain of the large expense upon sewers; but no other outlay whatever, if judiciously expended, yields richer or more valuable results. It shows on the part of the city government an appreciation of the highest of all blessings — *health*.

MORTALITY FOR AUGUST.

Accident	5	Inflammation of Bowels	1
Apoplexy	3	Intestinal Obstruction	1
Asthma	1	Inanition	1
Burns	1	Infantile	8
Cancer	1	Marasmus	4
Consumption	16	Meningitis	3
Cholera Morbus	5	Nervous Prostration	1
Cholera Infantum	40	Old Age	3
Croup	1	Paralysis	3
Debility	3	Peritonitis	1
Disease of Heart	6	Pneumonia	1
Disease of Brain	5	Poison	1
Delirium Tremens	2	Scrofula	1
Diarrhœa	3	Suicide	1
Diphtheria	2	Typhoid Fever	3
Dropsy	1	Uræmia	1
Drowned	2		
Enteritis	1	Total	136
Hydrocephalus	4		

The mortality in August is, on an average, always the largest of any month. In 1880 and 1881 it was 146 each year; but the last month it was 136, with an increased population. The cholera infantum cases (40) make by far the largest number of any one disease. These occurred mostly during the intense hot weather, and only a few other deaths could be attributed to the heat. The consumption cases (16) were less than usual. So of typhoid fever (3) and only two from diphtheria, which constitute all that are considered at all contagious. Of the thirty-five causes of death — omitting the accidents, suicide, and drowned — one-half (16) report only one death each, which indicates a very favorable state of health, especially for the season of the year.

SOAP-WORKS ON CHARLES STREET.

About fifty years since a soap manufactory was established on the south side of Charles street, midway between Central and Lawrence streets. At that time there were only three or four houses in the neighborhood, and this establishment was considered in the outskirts of the city. It was started by Messrs. Mead & Morgan, then carried

on sometime by Putnam & Currier; and afterwards, upon the decease of the former, Mr. Currier sold the concern, fifteen years ago, to Mr. P. M. Jefferson, the present proprietor. A large business has always been carried on by this manufactory, and though it is situated three or four rods back from the street, it is now surrounded by a dense population.

Like other soap-works, there are times when some parts of its operations throw out a most disagreeable smell. This odor penetrates quite a distance, and affects a large number of individuals and families. Formerly the complaints were directed against the rendering of tallow, and resulted in an indictment of the establishment, which occurred before it came into the hands of the present owner. As a consequence the tallow-rendering was given up. The two principal items of the business consist in the collecting of grease and the making of soap,—both soft and hard. In the collection of grease more or less decaying animal matter is included. In rendering this collection in large vats, it emits an exceedingly unpleasant odor, and extends to a large number of residents in the vicinity.

In consequence of complaints coming to the Board of Health, its members called on Mr. Jefferson, rehearsed these complaints, and stated what was the law and its decisions upon the subject. Mr. Jefferson met these statements in an honorable way, saying he should submit the whole question to the Board, for which he had great respect; that he did not wish to pursue a business that was in any way injurious to the neighborhood or the public welfare; but would remove, if the Board said so, the rendering of grease collected in the city to some locality less thickly settled. Upon further conference with the Board, Mr. Jefferson has agreed to remove that part of his business above stated as soon as practicable, as he has a large interest involved, both in the manufactory and in real estate. This decision, while it will highly gratify the residents in the vicinity, reflects honor upon Mr. Jefferson, as he must make quite a sacrifice in the change.

WEEKLY REPORT OF DEATHS.

This report of deaths, with names, ages, and diseases, is peculiar to Lowell. No other city in the state or the country publishes such a report. In 1842, Dr. John W. Graves, serving that year as an alderman, was chairman of a committee to define the duties of the

superintendent of burials. The writer being at that time in partnership with Dr. Graves in business, suggested to him the desirableness of having a public notice of all the deaths that occurred from week to week, and that this might very properly be made the duty of the superintendent of burials. As a result of this suggestion, and the mutual conferences that followed, Dr. Graves presented to the city government a report on the subject, whereupon the following order was passed on Sept. 5, 1842 :—

“SECTION 1. It shall be the duty of the superintendent of burials to furnish, on Monday of each week, to each newspaper selected to do the city printing, a correct list of all the deaths which occurred within the city during the previous week, with the date, ages, and diseases.”

This duty has since been transferred to the city clerk, who is also the registrar of vital statistics of the city. The advantages of such a report in any community are valuable.

CONTAGIOUS DISEASES AND THE LAW.

“SECT. 48. When a physician knows that any person whom he is called to visit is infected with any disease dangerous to the public health, he shall immediately give notice thereof to the board of health of the town; and if he refuses or neglects to give such notice, he shall forfeit for each offence a sum not less than fifty nor more than one hundred dollars.”

Scarlet fever and diphtheria are considered “dangerous” diseases, and the Board of Health for years have furnished the physicians in the city with postal cards, requesting them to notify the Board at once of such disease. Two cases of diphtheria exist at No. 24 Massachusetts Corporation at the present time, in which the disease was taken in the same block where it is said two cases of diphtheria lately occurred which were not reported to the Board of Health, and of which the neighbors were not forewarned.

BULLETIN NO. 9.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., Oct. 2, 1882. }

SMOKE AS A NUISANCE.

How does smoke become a nuisance? What are the facts, and what says the law on the subject? One of the highest legal authorities says: "The corruption of the atmosphere by the exercise of any trade, or by any use of property that impregnates it with noxious stenches, has ever been among the worst class of nuisances. The right to have the air float over one's premises free from all unnatural or artificial impurities, is a right as absolute as the right to the soil itself." There are three ways in which these "impurities" may operate. *First*, they may injure health; *second*, they may injure real estate; and *third*, they may render life or residence in a certain locality physically uncomfortable. If these propositions can be fairly established, it proves the agency a nuisance.

Now it has been settled by the courts in Great Britain that smoke in certain forms produces all these effects. Several of our Western cities have recently enacted stringent laws upon this subject, particularly Cincinnati, Cleveland, and Detroit. If, in order to carry on mechanical or manufacturing business, there must be large quantities of black smoke thrown out on the community, and its impurities could not be removed, then its continuance might be a question. But these impurities can be prevented. Within a few years, various kinds of apparatus, called "smoke consumers," have been invented in Great Britain, whereby the impurities in the smoke are removed. In the enlargement of manufactories, in putting in new engines, and burning larger quantities of bituminous coal in our city, these "smoke consumers" should, by all means, be applied. In certain localities families and neighborhoods are already complaining bitterly of the smoke nuisance, and it is obvious that the occasion is increasing. In matters affecting health and injury to property, manufacturing companies have no more rights than individuals. The law makes no distinction. Many companies in Great Britain have been fined for not abating this nuisance. Now is the time to apply the "smoke consumers," when putting in new engines and building chimneys.

MORTALITY FOR SEPTEMBER.

Accident	2	Enteritis	2
Apoplexy	1	Epilepsy	1
Anæmia	1	Erysipelas	1
Bright's Disease	1	Infantile	5
Cholera Morbus	2	Lungs, Congestion of	1
Cholera Infantum	23	Marasmus	8
Cerebritis	1	Meningitis	3
Consumption	16	Old Age	3
Convulsions	6	Paralysis	1
Croup	2	Pertussis	1
Debility	6	Pneumonia	1
Disease of Heart	6	Scarlet Fever	1
Disease of Brain	10	Scrofula	2
Disease of Liver	2	Tonsillitis	1
Diarrhœa	1	Typhoid Fever	3
Diphtheria	5	Ulcer of Stomach	1
Drowned	3		
Encephalitis	1	Total	124

Next to July and August, September always ranks highest in mortality. The average of these three months for ten years is 123, 128, and 111. The deaths this month (124) are rendered larger by the twenty-three cholera infantum cases. The proportion under five (68), more than one-half, is unusually large, and most of these were under one year of age. The cause of this large infant mortality originated partly in the summer heat, and partly was occasioned by the cold, damp spell of weather in September. There are five deaths reported from diphtheria, but probably it should be six, including one reported "tonsillitis,"—a disease which seldom, if ever, alone causes death. In the last registration report of deaths for Great Britain we do not find it at all, neither in the late reports of Massachusetts or of this city do we find it put down as the cause of death; and what is singular, a case of death from diphtheria occurred in the same family within twenty-four hours after the death from tonsillitis. This patient had been sick some ten days, but the diphtheria case only five. This person dying with diphtheria was an adult, and assisted in taking care of the tonsillitis patient.

DIPHTHERIA AND SCARLET FEVER.

Next to small pox, diphtheria and scarlet fever are most to be dreaded. Both these diseases are contagious, and, in some forms, very dangerous. Formerly they prevailed in our city as epidemics, causing an immense amount of sickness, as well as a large number of deaths. But within a few years it has been found out that the

prevalence and fatality of these diseases can in a great measure be prevented. Let the very first case be isolated, and allow no others to be exposed. To this end the law of the state requires on the part of the physician and the householder, that all such cases should be made known to the public. Since 1878 the Board of Health have, from time to time, notified physicians of this law, and that every new case of diphtheria and scarlet fever must be at once reported to the Board. There is reason to believe that this has generally been done.

In 1876 there were 158 deaths in Lowell from diphtheria, and in 1877, 142,—making 300 in these two years; but in 1880 there were only 22, and in 1881 only 27 deaths from this disease. In 1881 there were one hundred different notices of diphtheria cases, which, if unnoticed, would have greatly increased the disease in the city and its mortality. Last year there were only nine deaths from scarlet fever, whereas there were eighty-eight notices of the disease. From these facts we see what an ounce of prevention can do.

By way of contrast and illustration, let us notice an occurrence which has just happened. In the early part of August two children in one family on the Massachusetts Corporation had diphtheria. No notice of the fact was reported to the Board of Health; the neighbors were not forewarned of any danger; the children of this and other families associated and played together more or less. Soon diphtheria appeared in three other families near by, and four deaths have already taken place! Such facts need no comment. As in small-pox times, it would be far better to have the red flag designate the place of the disease, rather than that the health and lives of the whole community should be endangered.

In the first examination of a child complaining of a sore throat, special pains should be taken to make a correct diagnosis. If there is doubt, examine more carefully and call in counsel. The character of such a disease should be settled in the first stages, and not wait in making a report till the sure approach of death. This is a question of vital importance, involving, it may be, the health and lives of multitudes.

UNSANITARY NEW BUILDINGS.

Many small dwellings and quite a number of tenement blocks have been built the present season, and others are being projected, which in time must prove very unfavorable to health. In many of these dwellings the rooms are small. No proper provision is made

for ventilation, or for a suitable supply of light. But the outside affords still greater objections. They are located altogether too near each other, in many instances only separated by a narrow passage or a few feet apart. When these houses are built two, three, and four stories, the objections are still greater. The circulation of air is obstructed, the sunlight is cut off to a greater extent, and, as the windows come near each other, the inmates on both sides are more or less exposed. In such tenements there can be very little privacy.

As land becomes more valuable, and water-closets can be provided inside, there is a strong temptation on the part of the real-estate owner to cover nearly all his land with buildings. In this way he can obtain the greatest income from his investment, at least for a time. But what a violation of sanitary laws! Where the principles of this science have been reduced to a law, it stipulates that there shall be ten feet of open space between such buildings, and that they shall not cover over sixty per cent of the land. We predict that some of these tenements in our city will in time become not only hot-beds of disease, but will prove poor investments for their owners.

BULLETIN NO. 10.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., Nov. 1, 1882.

INTEMPERANCE AND HYGIENE.

The primary object of all boards of health is to prevent sickness and reduce the rate of mortality. If this can be done upon general principles, applied to large numbers, the work is much more important and is attended with far greater results. The evils of intemperance originate from a violation of sanitary laws, and must sooner or later draw the special attention of boards of health. Few are aware of the immense sickness and the great amount of mortality caused by alcohol. This question is especially one of vital importance to a manufacturing population. It is found that the more strictly people are confined to factory life, the greater is the temptation to drinking habits. *Let such a population become permanent, there is a powerful tendency to physical and moral degeneration. Then follow sickness, disease, and premature death. Such has been the history of a factory population in some of the cities abroad. Dr. Noble, one of the

oldest, most distinguished physicians in Manchester, England, stated recently that one-third of the diseases of that city were caused, directly and indirectly, by intemperance. This seems large; but when it is considered in how many ways the poison of alcohol injures almost every organ in the human system, and then, by transmission of its evil effects to offspring, it is not strange.

As to the number of deaths caused by drinking habits and drunkenness, it is difficult to state exactly. In all blank certificates for reporting deaths, provision is made for two causes — first or primary, and secondary or exciting — and generally the last blank only is filled out. The primary and predisposing causes may have existed for a long time, producing a far greater amount of sickness than the final or exciting cause, resulting in death. Thus a multitude of deaths reported under the heads of apoplexy, paralysis, dropsy, consumption, disease of liver, kidneys, etc., were primarily caused by spirituous liquors. Physicians, out of respect to the family and the friends of the deceased, seldom report “delirium tremens” or “alcoholism.” In the registration report of Great Britain, numbering some 550,000 deaths annually, only about 500 were reported under these heads; whereas, after a careful investigation by the registrar general, Dr. Farr, and others, between 50,000 and 60,000 died, in their opinion every year, from the effects of intemperance. Also, by a careful examination in a variety of ways and in different localities, it is the testimony of medical men of the highest authority that one-tenth of the mortality, or ten deaths out of every one hundred, may be traced directly or indirectly to alcohol. If one-third of the sickness and one-tenth of the mortality are thus brought about by intemperance, it shows what a terrible, what a tremendous evil it is. If this great evil could be eradicated in our city, what a surprising improvement would it make!

MORTALITY FOR OCTOBER.

Accident	3	Elephantasia	1
Asthma	1	Enteritis	3
Bronchitis	3	Erysipelas	1
Canker	1	Hæmoptisis	1
Cholera Infantum	11	Infantile	7
Consumption	9	Marasmus	3
Convulsions	7	Meningitis	3
Croup	1	Old Age	10
Debility	7	Paralysis	3
Dentition	2	Pneumonia	2
Diarrhœa	4	Stomach, Cancer of	1
Diphtheria	3	Typhoid Fever	4
Disease of Brain	3	Uræmia	1
Disease of Heart	8	Whooping Cough	2
Disease of Kidney	1		
Disease of Liver	2	Total	109
Dropsy	1		

October comes between the sickly and healthy seasons of the year. The average mortality of this month for ten years has been ninety-two; but for 1880 it was ninety-seven, and for 1881 it was one hundred and three. For this year it was one hundred and nine, which, considering the increase of population, is not large. Consumption (9) is much less than usual,—about one-twelfth, when it usually is one-sixth. The deaths from this disease thus far this year are forty less than in former years, which is not easily accounted for. The deaths from cholera infantum (11) are large; and on the other hand, from old age, 10, which is very large. At the same time, the deaths of children and infants under five make almost one-half of the list. There were three deaths from diphtheria, two from whooping cough, and four from typhoid fever.

TYPHOID FEVER.

This is the season of the year for typhoid fever. It is reported that this fever is quite prevalent at the present time in Boston and some other cities. Scarcely any disease is more to be dreaded than typhoid fever,—not only on account of its danger, but from its complications and sometimes long continuance. While there is no unusual prevalence of this fever in the city, there have constantly been more or less cases during the past year. For the ten months there have been forty-five deaths. Most of the deceased have ranged between fifteen and thirty years of age,—dying in the prime of life. Nearly three-fourths have been females, about one-half Irish and one-quarter French. A large proportion of them were operatives

connected with the mills. From January to November there were thirty-four cases of typhoid fever treated at St. John's Hospital, with eight deaths. Two or three died soon after admittance; besides, the more severe cases are brought to the hospital, so that the proportion of deaths here would be larger than might occur in private practice. Taking the whole aggregate of cases in the city, we shall find about one death occurring in seven or eight cases of typhoid fever. If there is an average of four deaths each month, it will make some thirty cases of typhoid fever in the city. Some of the time there might be a larger number, and again less.

The causes of this fever are various. Sometimes it may be traced to sewer-gas, impure air, bad water, effluvia from decaying vegetable and animal matter; but more often it is caused by overwork of the body and mind; by getting cold from changes in clothing or employment, and not infrequently it is aggravated by a deranged liver and stomach. In certain forms it seems to be contagious, as several persons in one family or neighborhood have it, one after another. In fact, in all cases of typhoid fever great pains should be taken on the part of nurses and attendants upon such cases, to have good air, to use disinfectants, to avoid getting cold, and to secure, as far as possible, regular meals and sleep. The typhoid fever, like many other diseases, can be prevented by proper precautions. Prevention here is better than cure.

SANITARY PROTECTIVE ASSOCIATION.

The suggestion has been made that Lowell ought to have an association for the cultivation of sanitary science. Such organizations are quite common in Great Britain, and have been the means of doing immense good. Nearly all reforms are carried on by associated agencies. While individuals may start them, and sometimes do great good by exposing evils and showing the need of reform and improvement, united counsel and action become necessary to carry on the work. There are great advantages in organizations where different parties can compare and exchange views, can adopt wise plans, and employ efficient means to carry them out.

The American Public Health Association, at its late meeting, advised the formation of such associations, and referred to several that had been instrumental in doing great good. The objects of such a society are manifold. Most valuable information may thus be

obtained in respect to individual health, in respect to the sanitary condition of the premises one occupies, and also in respect to the application of the laws of health and life in a variety of ways for the public welfare. Shall we have such an association in Lowell?

HEALTH OF OPERATIVES AND SHOP-GIRLS.

An act passed the legislature of this state, at its last session, intended for the preservation of the health of females employed in manufacturing, mechanical, and mercantile establishments, as follows :

CHAPTER CL.

SECTION 1. Every person or corporation employing females in any manufacturing, mechanical, or mercantile establishment in this commonwealth shall provide suitable seats for the use of the females so employed, and shall permit the use of such seats by them when they are not necessarily engaged in the active duties for which they are employed.

SECT. 2. A person or corporation violating any of the provisions of this act shall be punished by a fine of not less than ten dollars nor more than thirty dollars for each offence. [Approved April 12, 1882.

BULLETIN NO. 11.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, Mass., Dec. 1, 1882. }

HEALTH OF LOWELL COMPARED WITH OTHER CITIES.

The Registration Report of deaths in the state for 1881 has just been published. This report enables us to understand the health of the different cities and towns in the state, and then compare one place with another. The method of making the comparison is to rate the number of deaths in the year to so many thousand inhabitants,—that is, one death to one thousand persons. The years when the census is taken, giving the exact number of inhabitants in every place, are the best times of making the comparison. In other years it is necessary to make an estimate of the population, which is not exact. In 1880 the rate of mortality in the cities of Massachusetts was as follows, beginning with the highest: Fall River, 26.3; Fitchburg, 24.14; Holyoke, 24; Boston, 23.7; Gloucester, 23.2; Salem, 23.2; Lowell, 22°; New Bedford, 21.9; Lawrence, 21.3; Worcester,

20.9 ; Chelsea, 20.5 ; Lynn, 19.5 ; Springfield, 19 ; Haverhill, 18.95 ; Taunton, 18.6 ; Cambridge, 18.1 ; Somerville, 17, and Newton, 15.8. The other two cities, Malden and Brockton, have not been incorporated as cities long.

Of the eighteen cities, Lowell stands the twelfth in the point of health. Lowell possesses certain advantages, and some disadvantages. There are only three other cities — Fall River, Lawrence, and Holyoke — that are so exclusively manufacturing. The rate of mortality in two of them is larger than Lowell, and that of the other comes near it. In manufacturing cities population is more dense than in other places, and there are generally many very poor people,— both conditions unfavorable to health. In several cities on the list population is more diffused, including considerable rural and country life, which favors health. In some of these cities sanitary measures are applied more extensively and effectively than in others. If contagious diseases are kept out of a city, or confined to small quarters, it prevents a large number of deaths. Then, in comparing the mortality of one place with another, one year is not sufficient. The comparison should be based on a series of years ; the greater the number the more correct the comparison. There are other items which should be compared,— such as the proportion of infants and young children, or very old people. At either extreme in life the mortality is larger. Considering that Lowell has a large body of infant life, that its population is generally engaged in manufacturing, that it is largely made up of a foreign element, many living in very close quarters, and not a few very poor, the city stands well in point of health.

MORTALITY FOR NOVEMBER.

Abcess	1	Infantile	5
Accident	1	Marasmus	2
Apoplexy	1	Meningitis	1
Bright's Disease	1	Nephritis	1
Bronchitis	1	Old Age	1
Cholera Infantum	6	Paralysis	1
Consumption	18	Peritonitis	3
Convulsions	1	Pneumonia	8
Croup	4	Puerperal	1
Debility	3	Scrofula	1
Diarrhœa	1	Typhoid Fever	4
Dropsy	1	Ulcer	1
Disease of Brain	3	Whooping Cough	2
Disease of Heart	5		
Gastritis	1	Total	80
Inanition	1		

November is one of the most healthy months in the year. The report of deaths in 1880 was 89 ; in 1881, 93 ; and 1882, 80. Of the twenty-nine distinct diseases, eighteen report only one death each. Consumption (18) makes just one-fifth,—about the usual proportion. Pneumonia (8) is large for the season. There is only one death from contagious diseases (whooping cough), but not a single death from scarlet fever, measles, or diphtheria. It is safe to state that November was remarkably healthy,—too much so for the interest of physicians. The profession is very much crowded in the city. If all contagious diseases can be kept out, if one-third of the sickness can be prevented by sanitary agencies, it must curtail very sensibly the business of the medical profession.

BOARDS OF HEALTH.

Formerly, in cities, the law directed that the mayor and aldermen should act in the capacity of a board of health. They were appointed without any qualifications for the office, received no pay, and, it was hoped, they would have nothing to do. But when the small pox broke out here and in Boston, some ten years ago, it was found that boards so constituted failed entirely in suppressing the disease. Boston, seeing the great mistake, passed at once an ordinance to establish an efficient board, selecting three men fitted for such duties, and paid them good salaries to devote all their time to the work. As a result, great improvements in sanitary matters commenced at once in Boston.

The State Board of Health, seeing how other cities were suffering in this respect, advised the Legislature to pass an act providing — in case cities should adopt it by popular vote — that boards of health should be instituted on this wise: The city physician, instead of being chosen for one year by the council, should be appointed by the mayor and aldermen, for three years, and should be a member of the board of health by virtue of his office. The mayor should nominate, and the aldermen confirm, two other competent persons, each serving two years, and their salaries were to be fixed by the council. It was intended by this provision to take the appointment out of politics, or mere personal favoritism; to make the mayor, representing the highest interests of the city, responsible in the nomination, selecting the best men for the office that could be found, and the council each

year is to fix the compensation. The more enlightened and interested in sanitary matters are the mayor and council, the better, the more appreciated, and more liberal the salary.

The law clothes boards of health with great powers. It must be so, as contagious and dangerous diseases may break out suddenly, the health and lives of multitudes may be threatened, and the board must act at once and take the responsibility, — employ help, use means, spend money, etc., liberally, not extravagantly. Boards of health have far greater power than what is generally supposed. All laws passed by the state on health, and the ordinances or regulations adopted by cities, must be administered by local boards. Their powers and duties are minute, extensive, and imperative.

Again, there are two distinct views which may be taken respecting boards of health. Shall they simply attend to what the laws require, with as little trouble as possible for themselves, and not disturb the community, if possible, — careful to create no prejudices and make no enemies? This course is the easiest and most tempting. But it so happens that the enforcement of certain regulations of a city in respect to health conflicts at once with the ignorance or prejudice of people, and not infrequently taxes their pecuniary interests. This is not pleasant for the officers or people; but duty is duty; the health and lives of people must not be sacrificed. If the rule is good for anything, it must be obeyed.

Again, another duty of a board of health is to communicate knowledge upon such matters. Prevention of disease is comparatively a new thing. This is the object of sanitary science. It is found by actual trial that nearly one-third of the sickness and premature mortality can be prevented by the use of sanitary agencies. Is such a fact of no interest to individuals or a community? Is there no truth in the proverbs, “A stitch in time saves nine,” and “An ounce of prevention is worth more than a pound of cure”? The great object of boards of health is to demonstrate the truth of these proverbs.

HEARING ON THE FELTING MILLS.

The evening of November 23 was set by the Board of Health for a hearing of the petitioners on the Felting Mills; but by some misunderstanding the parties did not appear. If the parties desire it, another time will be appointed for a hearing, after city election is over.

MOTHERS WORKING IN MILLS.

The following question was discussed at the recent meeting of the British Social Science Association, held at Nottingham, England: "How does the employment of mothers in mills and manufactories influence infant mortality, and ought any restrictions to be placed on such employment?"

BULLETIN NO. 12.

OFFICE OF BOARD OF HEALTH, CITY HALL, }
LOWELL, MASS., Jan. 1, 1883. }

PREVENTABLE DISEASES.

Formerly it would have been deemed almost sacriligious to think of preventing diseases. They were considered by many persons as the messengers of the Almighty — were a part of the dispensations of divine Providence — and their infliction must be borne with all the patience and resignation possible. But now they are regarded in a very different light. By persons best informed they are looked upon as penalties of violated law; and, though the subjects of them may be ignorant of the fact, most diseases are under the control of human agency.

What, then, are some of these diseases? First, the class that are strictly contagious, or infectious, embracing small pox, scarlet fever, measles, and whooping cough. These are strictly contagious, that is, catching, communicated from one person to another. These diseases never originate spontaneously, or start from any other cause. Now if the cause is removed, if the first case is perfectly isolated and exposes no other person, the disease is checked. Scarlet fever, measles, and whooping cough are considered more especially the diseases of childhood and youth, and it has been thought that all children must necessarily have them. Now this conviction has been so generally and firmly believed, that the community were almost indifferent about the spread of these diseases, but of late years are beginning to learn the folly and danger of such a course. These four diseases should be banished.

Two other diseases, diphtheria, and typhoid fever, are to a great extent preventable. Avoid the *first causes*. In most cases these originate in bad air, foul gases, impure water, improper food, overwork, and other exposures. Then, in certain forms, diphtheria and

typhoid fever communicate from one to another. Where such bad cases occur, the greatest pains possible should be taken to prevent this communication. Two other diseases — cholera infantum and dysentery — are, in a great measure, preventable by proper precautions. Very much of the mortality from cholera infantum, in cities, can and should be prevented. There are two more dangerous diseases — eroup and pneumonia — that always come by cold and by exposures that are not absolutely necessary. In the opinion of the best judges in Great Britain and in this country, one-third of the existing disease and mortality is preventable.

MORTALITY FOR DECEMBER.

Accident	1	Dropsy	2
Anæmia	2	Dysentery	1
Bronchitis	4	Erysipelas	3
Cancer	1	Gangrene	1
Cerebritis	1	Infantile	5
Cholera Infantum	1	Marasmus	4
Congestion of Lungs	1	Meningitis	1
Consumption	23	Old Age	6
Convulsions	1	Paralysis	2
Croup	2	Pneumonia	13
Cyanosis	1	Scarlet Fever	2
Diabetes	1	Scrofula	1
Diphtheria	2	Tonsilitis	1
Disease of Brain	7	Typhoid Fever	4
Disease of Heart	7		
Debility	4	Total	107*

The mortality for December (107) presents no striking features. Last year there were one hundred and five deaths, with only two more this year, and considerable increase of population. The deaths under five years (33) is a less proportion than in summer. Under the head "Old Age" (6) we find that five had reached the ages of 80, 81, 82, 87, and 88. Deaths from diseases of the lungs have increased: Consumption, 23; pneumonia, 13; total, 36. Only two deaths occurred from scarlet fever, though a large number of cases were reported in the city. Also only two deaths were reported from diphtheria and five from typhoid fever.

* NOTE.—As the reports of deaths are made by the undertakers at the close of each week, to the city clerk, and this bulletin is dated the 1st of the month—it may be the middle of the week—the exact number of deaths could not always be obtained from the undertakers at that time. Thus the number in these monthly reports will fall short of the whole number for the year, which is 1319, as given by the city physician.

SCHOOL HYGIENE.

At the recent city election, of the six gentlemen chosen to serve on the school committee, four were physicians. Aside from book knowledge and discipline in schools, health is of the utmost importance. No one can understand the importance of this so well as a physician, and at the same time, the peculiar exposures to disease connected with our schools. Several years ago the school board caused a distinct committee to be appointed for sanitary purposes, but, by some means, not much improvement has yet appeared from the labors of such a committee. Two years ago the State Board of health, in its annual report, made severe strictures upon the sanitary condition of some of our school-houses, which were not creditable to the city. Some of the evils pointed out in that report have since been remedied; but then, many defects still exist. There is great room for sanitary improvement in respect to some of the school-houses,—their yards, cellars, and water-closets; also in respect to the schools, such as ventilation, the physical exercises of pupils, their posture in the school-room, the amount of study required, the temperature of the school-room, exposure of pupils to cold, etc. Here is a grand opportunity for those physicians to do a work which will exert a most beneficial influence upon the schools, and which will redound very much to their own credit. We earnestly hope they will take hold of the work. Every grade in the schools, from the highest to the lowest, needs it. In the High School some provision should be made for improving the health of the girls as well as of the boys. Then, in the primary schools, special pains should be taken to see that the health and growth of the youngest children are not interfered with by school attendance or exercises. The development of the body at this age is more important than any teaching of the mind can be.

MAYOR'S MESSAGE. — PUBLIC HEALTH.

As our mayors in past years have seldom, in their messages, referred to the matter of health, it is pleasant to find Mayor Donovan making this reference:—

“The subject of health is one of prime importance to every citizen. All measures calculated to promote health and prevent disease should receive our hearty approval and support. We should see that all rules and regulations adopted by former city governments for this purpose are strictly

observed. This department is committed particularly to the care of the Board of Health, which has important duties to perform. Within a few years it has been found that by application of sanitary agencies a large amount of disease can be prevented, especially those of a contagious nature. It is understood that by precautions of this kind measles, diphtheria, and scarlet fever have been much abridged. One of the most common complaints under the head of nuisances arises from privy vaults poorly constructed, and situated in yards, beneath windows that open into sleeping rooms, kitchens, and living rooms. I would urge the more general introduction of water-closets in all tenement blocks and other buildings in the more compact parts of our city. The health department has cost \$8,256.45, and a balance of \$214.01 stands to its credit."

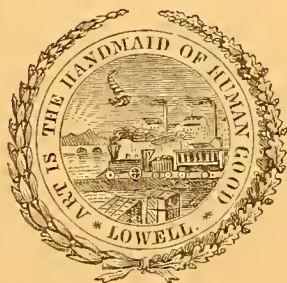
Respectfully submitted.

J. W. B. SHAW,
NATHAN ALLEN,
W. G. EATON, JR.,

Board of Health.

LOWELL, MASS., Jan. 30, 1883.

ANNUAL REPORT
OF THE
CITY PHYSICIAN
AND
SUPERINTENDENT OF BURIALS
OF THE
CITY OF LOWELL FOR THE YEAR 1882.



LOWELL:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 25, 1883.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, January 25, 1883.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

OFFICE OF CITY PHYSICIAN AND SUPT. OF BURIALS.

To the City Council:

GENTLEMEN—In accordance with the ordinance requiring the City Physician and Superintendent of Burials to make an annual report of the condition of his departments, I have the honor to submit the following: The mortality for the year ending December 31, 1882, was 1319, an increase of 32 over that of 1881, and of 7 over that of 1880. This increase is satisfactorily accounted by the increased population of the city. Estimating our population at the present time to be in the neighborhood of sixty-eight thousand, this would make the death rate for the past year to be 19.3 per thousand, a more favorable exhibit than for the past two years. This ratio of mortality, considering the nature of our population and the crowded and unhealthy condition in which a large number, to a great degree, must necessarily live, must be considered as good a showing, if not better than most of the cities and towns of the Commonwealth.

Our city was fortunate during the past year, in being entirely free from any epidemic of disease. During the Winter and Spring of '82 much uneasiness was caused by the prevalence of small-pox in some of the adjoining cities and towns, and the Board of Health thought it necessary to provide some place and means for the purpose of vaccinating, free of charge, any who had not taken this means of

escaping the disease ; accordingly, the City Physician was appointed to do the work, and the hour between 12 M. and 1 P. M. was thought to be the most convenient time in which he might be found at the Dispensary on Market street. During the alarm consequent to its proximity, large numbers availed themselves of the opportunity afforded. The number of vaccinations and re-vaccinations was 701. Notwithstanding this large number there still remain a great many, both old and young, who have not been, but who need to be, vaccinated, and the Board has consequently decided to furnish a place where this much-needed work may be done during the present year.

In April, '81, the duties of the City Physician were greatly lessened by a new arrangement, whereby each of the six wards of the city was provided with a physician to take charge of the sick poor in that ward. Such an arrangement is a great improvement over the old method, as the constantly increasing population demands more time than one physician can give to the work, unless his time was exclusively devoted to it. The duties of the City Physician are now principally confined to the City Farm and Police Station. The new buildings at the Farm, which are to be occupied during the present year, will be of great benefit to the inmates of the institution, more especially to the infirm and sick. The men and boys are at present well housed in warm and comfortable buildings. Not so much can be said in regard to the sick and insane, who, of all the inmates, need the best care and the most comfortable apartments. The so-called hospital, poorly ventilated, close, and old, with all that that term may suggest, is the worst apartment for its purpose in the whole institution. Not much more can be said of the insane department, which is much too small and ill adapted for its purpose.

Too much praise cannot be given to the matron of the institution and her assistants, who do all in their power for the proper hygienic condition of the place and for the comfort and health of the inmates.

In the nursery, an apartment about 75 by 20, where over 40 children sleep and eat, and where the only means of ventilation is by opening the windows directly over the beds in which 4 or 5 children sleep every night, but 2 deaths have occurred during the year, viz., 1 of cholera infantum in a child 22 months old, and 1 of convulsions in an infant 13 days old. This very favorable condition is entirely due to the extreme cleanliness of the room and the watchful care of the attendant in charge.

There has been no epidemic at the Farm. No contagious disease has existed during the year. Only 3 deaths have occurred during the past year wherein the disease was contracted at the institution, namely, the 2 mentioned above and 1 of typhoid fever.

The number of deaths at the institution during the year was 30, classified as follows:

Consumption.....	4	Fracture of Thigh.....	1
Chronic Diarrhoea.....	5	Old Age.....	4
Cholera Infantum.....	1	Paralysis.....	3
Convulsions.....	1	Poison.....	1
Debility	4	Serofula	1
Delirium Tremens.....	2	Softening of Brain.....	1
Erysipelas	1	Typhoid Fever.....	1

Remembering that the class of persons who are sent to the institution are, as a rule, those who have been dissipated, careless of how they have lived, without the least regard to the rules of health, and broken down from many different causes, the above is, I think, a favorable showing. Medical skill works at a disadvantage on such constitutions.

In April the keeping of the Edson Cemetery was delivered to Elias Lyons and Edward Swan, who have given general satisfaction to those having lots in the grounds. During the year a new chapel

has been finished and will soon be put into order for holding services when needed ; a large lot of land has been cleared and staked off, and the lots have been rapidly taken up. The grounds have been well kept, and avenues and paths put into good condition. The desirability of this Cemetery is constantly increasing, and lots are being secured by those who wish a cheap, pleasant and easily accessible place of burial.

MORTALITY FOR THE YEAR ENDING DEC. 31, 1882.

Abseess	3	Fever	1
Accident	22	Fistula	1
Anaemia	5	Gangrene	2
Aneurism	1	Hemorrhage	4
Aphthae	1	Hepatitis	5
Apoplexy	20	Hemoptysis	1
Ascites	1	Hydrocephalus	14
Asthma	3	Inanition	4
Ateleetasis	1	Infantile	56
Blood Poison	1	Inflammation of Bowels	6
Bronchitis	33	Intestinal Obstruction	1
Bright's Disease	7	Jaundice	1
Burns	9	Malformation	1
Cancer	17	Malaria	1
Cholera Infantum	135	Marasmus	31
Cholera Morbus	10	Measles	1
Congestion of Brain	10	Meningitis	38
Congestion of Lungs	9	Nephritis	2
Consumption	211	Nervous Exhaustion	1
Convulsions	45	Nervous Prostration	1
Croup	23	Old Age	50
Cyanosis	3	Paralysis	26
Cystitis	5	Parotitis	1
Debility	54	Peritonitis	11
Delirium Tremens	1	Pleurisy	2

Diarrhœa.....	12	Pneumonia	74
Diabetes	2	Poison	2
Diphtheria	18	Prostatitis.....	3
Disease of Brain.....	44	Puerperal	5
Disease of Heart.....	73	Purpura.....	1
Disease of Hip.....	2	Rheumatism	2
Disease of Kidney.....	3	Scarletina	9
Disease of Liver.....	10	Scrofula.....	7
Disease of Spine.....	2	Suicide	4
Disease of Stomach.....	9	Tabes Mesenterica.....	1
Dropsy	6	Teething	6
Drowned	15	Thrombosis.....	1
Dysentery.....	3	Tonsillitis	2
Elephantiasis	1	Typhoid Fever.....	52
Embolism	2	Ulcer	5
Enteritis	8	Unknown	12
Epilepsy	2	Uræmia.....	5
Erysipelas.....	8	Whooping Cough.....	12

DEATHS IN EACH MONTH FOR THE LAST TEN YEARS.

MONTHS.	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	Total each Month for ten years.
January....	82	88	76	80	120	64	105	107	84	115	921
February...	82	83	78	57	88	78	69	93	103	82	813
March	86	96	82	81	97	104	78	125	109	91	949
April	91	104	80	75	84	84	83	103	111	105	920
May.....	82	89	99	69	77	82	73	90	101	112	874
June	68	67	76	69	63	78	70	103	86	99	779
July.....	153	99	81	160	87	132	108	135	144	137	1236
August	145	139	129	137	112	127	97	146	146	137	1315
September..	119	143	97	128	81	121	75	184	102	127	1117
October	107	96	84	119	86	78	92	97	103	118	980
November..	65	90	60	91	64	58	74	89	93	81	765
December ..	85	90	78	83	68	82	82	90	105	113	878

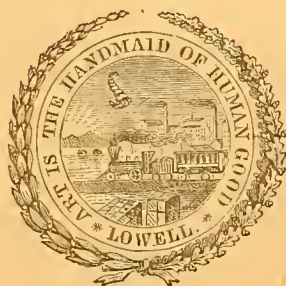
SHOWING NUMBER OF DEATHS FROM SOME OF THE
MOST PREVALENT DISEASES IN THE LAST
TEN YEARS.

DISEASES.	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	Total ten years.
Cholera Infantum . . .	82	135	105	119	63	96	86	127	111	135	1059
Consumption	207	184	212	188	176	191	193	233	235	211	2030
Croup	21	34	39	63	42	28	26	33	44	23	353
Disease of Heart . . .	46	47	46	40	40	45	45	60	62	73	504
Diphtheria	4	17	16	158	142	62	21	22	27	18	487
Infantile Debility . . .	64	48	62	46	58	67	31	86	69	56	587
Marasmus	50	32	...	22	16	21	24	36	34	31	266
Pneumonia	80	61	51	47	40	53	80	119	83	74	688
Scarlet Fever	57	100	19	5	3	2	12	17	9	9	233
Typhoid Fever	56	42	34	20	21	24	22	23	53	52	347

DEATHS IN LOWELL SINCE ITS INCORPORATION.

1827	50	1846	690	1865	575
1828	32	1847	948	1866	749
1829	66	1848	825	1867	640
1830	103	1849	903	1868	875
1831	117	1850	492	1869	763
1832	178	1851	629	1870	952
1833	211	1852	604	1871	1033
1834	221	1853	734	1872	1048
1835	229	1854	834	1873	1161
1836	253	1855	766	1874	1184
1837	301	1856	790	1875	1020
1838	470	1857	818	1876	1147
1839	340	1858	626	1877	1027
1840	407	1859	736	1878	1080
1841	434	1860	720	1879	1006
1842	473	1861	713	1880	1312
1843	364	1862	641	1881	1287
1844	362	1863	695	1882	1319
1845	363	1864	633		

ANNUAL REPORT
OF THE
BIRTHS, MARRIAGES AND DEATHS
IN THE
CITY OF LOWELL
DURING THE YEAR 1882.



LOWELL:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, March 27, 1883.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, March 27, 1883.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

CITY CLERK'S OFFICE, }
Lowell, March 27, 1883. }

To the City Council:

GENTLEMEN: I have the honor to submit the Annual Report of Births, Marriages, and Deaths, in the City of Lowell during the year 1882.

BIRTHS.

The number of children born alive during 1882 was 1755, a decrease from the previous year of 85.

There were 883 males, 872 females. Three were colored, and twelve reported as illegitimate. Fifteen pairs of twins are recorded, six pairs of boys, seven pairs of girls, and in two cases one of each sex.

The Wards reported as follows:

Ward One . . .	272	Ward Four . . .	275
Two . . .	220	Five . . .	372
Three . . .	365	Six . . .	251

The Wards gain over 1880 as follows: Ward Four, 36.

Losses are reported as follows: Ward One, 39; Ward Two, 22; Ward Three, 37; Ward Five, 19; Ward Six, 4.

REPORT OF BIRTHS,

By months the following figures are reported :

January	144	April	121
February	124	May	127
March	153	June	167
	<hr/>		<hr/>
	421		415
July	134	October	156
August	190	November	130
September	142	December	163
	<hr/>		<hr/>
	466		449

The months of four births are not reported.

The nativities of the parents of the children born are given as follows :

	Fathers.		Mothers.	
	1881.	1882.	1881,	1882.
Born in United States	607	643	659	667
“ Ireland	527	415	488	438
“ Canada	391	473	392	441
“ England	133	149	113	143
“ Scotland	23	31	26	39
“ Other Foreign Countries,	52	20	71	13
Unknown	107	24	91	14
	<hr/>	<hr/>	<hr/>	<hr/>
	1840	1755	1840	1755

MARRIAGES.

The number of intentions of marriages recorded and issued in 1882 was 857, an increase of 45 over 1881.

The number of marriages solemnized in Lowell was 813, or 27 more than in 1881 ; solemnized elsewhere, but returned and recorded here because one or both of the parties resided in Lowell, 48, or one less than in 1881, making in all 861 recorded here, or 26 more than in 1881.

The number of certificates issued and marriages recorded in each month were as follows :

	Certificates.	Marriages.		Certificates.	Marriages.
January .	74	70	July .	73	75
February .	76	82	August .	65	69
March .	27	28	September.	53	54
	—	—		—	—
	177	180		191	198
April .	74	72	October .	87	84
May .	73	76	November .	103	111
June .	84	80	December .	68	60
	—	—		—	—
	231	228		258	255

The following-named resident clergymen officiated in performing the ceremonies :

BAPTIST—58.

Rev. J. C. Emery, 15 ; O. E. Mallory, 17 ; T. M. Colwell, 17 ; N. C. Mallory, 9.

CATHOLIC—372.

Rev. A. M. Garin, 137 ; James McGrath, 57 ; Peter Crudden, 28 ; Wm. O'Brien, 32 ; Michael O'Brien, 41 ; Wm. M. O'Brien, 11 ; J. A. Fournier, 2 ; A. Trudeau, 19 ; J. D. Colbert, 18 ; F. Gigault, 1 ; James Campbell, 2 ; G. J. Van Laar, 1 ; L. V. Petit, 1 ; Thomas F. McManus, 15 ; A. Gladu, 5 ; J. Marion, 2.

CONGREGATIONALIST—63.

Rev. Smith Baker, 41 ; J. M. Greene, 11 ; Owen Street, 4 ; J. B. Seabury, 6 ; Elias Nason, 1 ; J. Malvern, 1.

EPISCOPAL—62.

Rev. Theodore Edson, 41 ; L. C. Manchester, 16 ; A. E. Johnson, 4 ; J. Jewett Cressy, 1.

FRENCH PROTESTANT—7.

Rev. T. G. A. Cote, 7.

REPORT OF BIRTHS,

FREEWILL BAPTIST—30.

Rev. E. W. Porter, 25 ; G. S. Ricker, 5.

METHODIST (EPISCOPAL)—97.

Rev. W. W. Foster, 18 ; N. T. Whitaker, 39 ; C. D. Hills, 7 ; E. A. Smith, 10 ; Thos. Haworth, 2 ; N. W. Matthews (Primitive), 11 ; H. D. Weston, 10.

PRESBYTERIAN—24.

Rev. Robert Court, 24.

UNITARIAN—20.

Rev. H. C. Duganne, 12 ; J. L. Seward, 8.

UNIVERSALIST—33.

Rev. G. W. Bicknell, 21 ; R. A. Greene, 12.

NON-RESIDENT CLERGYMEN—60.

JUSTICES OF THE PEACE—34.

The relative gain or loss by resident clergymen of different denominations, as compared with 1881, are as follows ; Increase, Catholic, 13 ; Baptist, 20 ; Episcopal, 2 ; Universalist, 4 ; French Protestant, 4 ; Methodist, 25 ; Presbyterian, 2 ; Unitarian, 5. Decrease, Congregational, 33 ; Freewill Baptist, 13.

The nativities of those married were as follows :

	Grooms.		Brides.	
	1881.	1882.	1881.	1882.
Born in United States . . .	456	462	435	450
“ Ireland . . .	100	115	104	123
“ Canada . . .	169	170	185	173
“ England . . .	51	57	40	38
“ Scotland . . .	12	10	10	12
“ Brit. Am. except Canada {	27	33	48	55
“ Other foreign countries . }	20	14	13	10
Total . . .	835	861	835	861

In 361 marriages both parties were native born; in 315 marriages ^{that} both were foreign born; in 98 marriages a native groom was united to a bride of foreign birth, and 87 foreign grooms were united to ^{et.} native brides. There were 462 native grooms and 450 native brides, 399 foreign grooms and 411 foreign brides.

Those married for the first time numbered 732 grooms, 780 brides; for the second time, 120 grooms and 76 brides; for the third time, 9 grooms and 5 brides; of the latter, one, a groom of 31 married this time a single woman of 24. Of those married for the first time there were 694 couples. In 37 cases bachelors married widows, in 86 unions single women were married to widowers; in 44 cases both were widowed.

The oldest couple married were aged 66 and 62, the bride's age being last as also in the following cases which shows the ages of certain couples who were united with the silken bonds: 69 and 33; 66 and 62; 64 and 50; 63 and 52; 65 and 37; 57 and 36; 26 and 15; 23 and 15; 19 and 16; 18 and 20; 18 and 18; 18 and 17.

In 105 cases the bride was the older; in 59 instances the grooms were under 21 years of age, and in 65 cases the bride was less than 19, six being but "sweet sixteen," and two but 15.

DEATHS.

The number of deaths in 1882 was 1322, an increase of 35 over 1881.

Deaths by months were reported as follows:

January	116	July	137
February	82	August	138
March	92	September	128
	<hr/>		<hr/>
	290		403
April	105	October	118
May	113	November	81
June	97	December	115
	<hr/>		<hr/>
	315		314

The number of males deceased was 616 ; females, 706.

The causes of deaths and other interesting facts will be found in
R Annual Report of the City Physician and Superintendent of
Trials, and need not be repeated here.

In 1880 the census of Lowell was taken by enumeration districts, the city having been divided into 26 parts for that purpose. The census of each district has been obtained from official sources, and the compiler is enabled to give the population, number of deaths, and the death rates in each district. The same description and tables are given as in the report for 1880, including, however, the figures for three years, so that comparisons may be made.

WARD ONE.

District 1.—Ward 1 north of Merrimack street and east of the Suffolk or Western canal except the mill yards and houses of the Lawrence company, and Tremont and Suffolk mills.

District 2.—Ward 1 north of Merrimack street and west of the Western or Suffolk canal ; also the mill yards and the houses of the Lawrence company, and Tremont and Suffolk mills.

District 3.—Ward 1 south of Merrimack street, west of Dutton street, north of Market street, and east of Hanover street ; also that part west of Dummer street, and east of Lewis street, between Market street and Broadway.

District 4.—Ward 1 east of Dummer street, between Market street and Broadway ; also all of the Ward south of Broadway, on both sides of the Western or Suffolk canal.

District 5.—Ward 1 between Merrimack, Suffolk, Broadway, Adams and Cabot streets.

WARD TWO.

District 6.—Ward 2 south of Merrimack street ; also all east of Bridge street and south of the Merrimack river.

District 7.—Ward 2 north of Merrimack street and west of Bridge street south of the Merrimack river, and that part north of Merrimack river, between River street and the Merrimack river.

District 8.—All of Centralville west of Bridge street, except that portion between River street and the Merrimack river.

District 9.—All of Centralville east of the center of Bridge street.

WARD THREE.

District 10.—Ward 3 between Central and Gorham streets, north of Elm street; also that part between Summer, Gorham and South streets.

District 11.—Ward 3 between Central and Gorham streets, south of Elm street; also that portion south of the South common between South, Gorham and Thorndike streets.

District 12.—Ward 2 commencing at Crosby street south of Central, Wamesit and Taylor streets, west of the Concord river, north of River Meadow Brook and north or east of Crosby street.

District 13.—Ward 3 east of Central and Gorham streets, south or west of Crosby street, and north of River Meadow Brook and all east of Gorham street and south of River Meadow Brook to the city line.

District 14.—Ward 3 west of Gorham street, and between Thorndike and Chelmsford streets to the city line.

WARD FOUR.

District 15.—Ward 4 east of South street, and also including the mill yards, tenements and boarding houses of the Hamilton and Appleton companies.

District 16.—Ward 4 west of South street and east of Thorndike street, except the mill yard, and houses of the Appleton company, and also that part of the ward north of Middlesex street, west of Thorndike street, and east of School street.

District 17.—Ward 4 south of Middlesex street, between Thorndike, Chelmsford, Powell, Liberty and School streets.

District 18.—Ward 4 west and south of School, Liberty, Powell and Chelmsford streets, including territory annexed in 1874.

WARD FIVE.

District 19.—Ward 5 north of Merrimaek street.

District 20.—Ward 5 south of Merrimack street and north of Broadway and east of Fleteher street, including the west sides of Adams and Cabot streets, between Broadway and Merrimaek streets and the south or east side of Pawtucket street between Fletcher and Merrimaek streets.

District 21.—Ward 5 south of Broadway and east of School street, and west of Adams and Fletcher streets, also all between Varney, Fleteher, Broadway and School streets.

District 22.—Ward 5 north of Varney street, and West of Fletcher street and east of School street from Varney street to Pawtucket bridge, and commencing at Jonathan Johnson's house on the north side of Pawtucket street, also the territory in Ward 5 west of School street, south of Merrimack river, and also the territory north of the Merrimack river and west of Beaver brook, annexed from the town of Draent in 1874 and 1879.

WARD SIX.

District 23.—Ward 6 west of Fayette street and north of Church and Andover streets, on both sides of the Concord river.

District 24.—Ward 6 east of Fayette street and north of Andover streets except that part bounded by High, Chestnut, Nesmith and Andover streets.

District 25.—Ward 6 south of Andover street and east of Concord river, also that part bounded by High, Chestnut, Nesmith and Andover streets.

District 26.—That part of Ward 6 west of the Concord river and south of Church street.

TABLE

OF POPULATION, NUMBER OF DEATHS, AND DEATH RATES
BY ENUMERATION DISTRICTS.

Wards.	Districts.	Populat'n. June 1, '80	Deaths in			Deaths in each 1000 of Population.		
			1880	1881.	1882.	1880.	1881.	1882.
1	1	2529	52	33	39	20.56	13.04	15.42
	2	2470	37	25	8	14.97	10.12	3.23
	3	2086	67	42	65	32.11	20.13	31.16
	4	2190	48	47	47	21.91	21.46	21.46
	5	2441	95	84	79	38.87	34.41	32.26
		11,716	299	231	238	25.52	19.71	20.31
2	6	1801	30	32	36	16.65	17.76	19.98
	7	2482	41	27	34	16.51	10.87	13.67
	8	2505	53	53	66	21.15	21.15	26.34
	9	2204	50	41	39	22.68	18.60	17.69
		8992	174	153	175	19.35	17.01	19.46
3	10	2212	64	63	52	28.93	28.49	23.50
	11	1721	25	28	40	14.52	16.26	23.24
	12	2195	49	51	80	22.32	23.23	36.44
	13	1788	27	18	35	15.08	10.06	19.57
	14	2177	31	40	42	14.23	18.32	19.29
		10,093	196	200	249	19.42	19.81	24.67
4	15	2302	36	42	30	15.63	18.24	13.03
	16	2189	38	28	51	17.35	12.78	23.29
	17	2146	27	46	45	12.58	21.43	20.96
	18	2226	35	35	35	15.71	15.71	15.72
		8863	136	151	161	15.34	17.00	18.16
5	19	3477	103	104	96	29.62	29.91	27.61
	20	2754	83	61	38	30.13	22.15	13.79
	21	2511	51	45	48	20.31	17.92	19.11
	22	2163	40	47	44	18.48	21.12	20.34
		10,905	277	257	226	25.40	23.56	20.72
6	23	2788	62	59	67	22.22	21.16	24.03
	24	1826	24	42	30	13.14	23.00	16.42
	25	1824	41	45	35	22.47	24.67	19.18
	26	2478	39	53	47	15.73	21.37	18.96
		8916	166	199	179	18.61	22.30	20.07
St. John's Hospital.			38	52	55			
City Farm & Hosp'l.			20	23	18			
Other Institutions, drowned, accid't'l. not located, etc.			6	23	18			
Total city,		59,485	1312	1287	1319	22.05	21.63	22.17

CONCLUDING REMARKS.

In addition to the foregoing there were 24 still-births reported, 16 males, 6 females, and 2 of which the sex was not returned.

The births exceeded the deaths by 433. The birth rate was 29.50 in each 1000 of the population; the number of persons married 27.33 in each 1000, and the death rate was 22.17 in each 1000, according to the census of 1880.

Copies of the Births, Marriages and Deaths have been made and delivered to the Secretary of the Commonwealth, as required by law.

Respectfully submitted,

DAVID W. O'BRIEN,

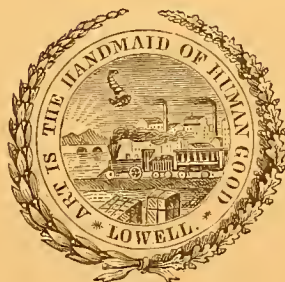
City Clerk.

TABLE

GIVING THE NUMBER OF BIRTHS, MARRIAGES AND DEATHS
IN LOWELL SINCE ITS INCORPORATION.

YEAR.	POPULATION.	BIRTHS.	MARRIAGES.	DEATHS.
1826-1843	.....	est. 5,010	est. 4,500	4,186
1844	25,163	662	319	362
1845	.....	660	399	363
1846	29,127	772	591	690
1847	.....	719	659	949
1848	.....	796	516	825
1849	.....	672	320	903
1850	33,383	966	674	492
1851	.....	1,018	669	629
1852	.....	1,007	669	604
1853	.....	1,093	742	734
1854	.....	1,092	808	834
1855	37,554	1,039	687	766
1856	.....	1,034	632	790
1857	.....	1,051	585	818
1858	.....	827	467	626
1859	.....	983	496	739
1860	36,827	1,077	497	720
1861	.....	949	459	713
1862	.....	763	368	641
1863	.....	657	302	695
1864	.....	658	335	633
1865	30,990	672	406	575
1866	36,878	813	625	749
1867	.....	826	596	640
1868	.....	860	495	857
1869	.....	858	575	763
1870	40,928	926	515	952
1871	.....	886	647	1,033
1872	.....	1,099	670	1,048
1873	.....	1,365	705	1,161
1874	.....	1,356	580	1,184
1875	49,688	1,296	513	1,020
1876	.....	1,264	514	1,147
1877	.....	1,341	552	1,029
1878	.....	1,332	546	1,088
1879	.....	1,412	635	1,006
1880	59,485	1,770	744	1,312
1881	.....	1,840	786	1,287
1882	.....	1,755	813	1,319
Total,		45,176	26,607	36,882

ANNUAL REPORT
OF THE
CHIEF ENGINEER
OF THE
FIRE DEPARTMENT
OF THE
CITY OF LOWELL,
FOR THE YEAR ENDING MARCH 31, 1883.



LOWELL:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 10, 1883.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, April 10, 1883.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

CHIEF'S OFFICE, ENGINE HOUSE, MIDDLE STREET, }
LOWELL, APRIL 1, 1883. }

To the Honorable Mayor and Board of Aldermen:

GENTLEMEN:—In accordance with the requirements of the ordinance governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of Lowell for the year ending March 31, 1883.

The report will be found to contain statements in detail, embracing the amount of expenditures, a register of the department, with number of badge, age, residence and occupation of each member; a record of all fires and alarms which have occurred during the year and the causes thereof, with the names of the owners or occupants, the loss and insurance as near as could be ascertained; with the number and location of fire alarm boxes, hydrants and reservoirs, with an inventory of all property belonging to the department in charge of the several companies, and such other information as is thought proper for your consideration.

The amount received from appropriations and other sources was \$62,149.40. The expenses of the Department have been \$59,429.47, leaving a balance of \$2,719.93.

The following statement will show the

RECEIPTS AND EXPENDITURES.

RECEIPTS.

Balance undrawn January 1, 1882.....	\$ 2,487 64
Appropriation.....	58,000 00
Received from other sources.....	1,661 76
	<hr/>
	\$62,149 40

EXPENDITURES.

Water rates for hydrants, etc.....	\$14,267 13
Pay Roll.....	31,191 93
Alterations and repairs on buildings.....	979 29
Alterations and repairs on Fire Alarms.....	1,604 74
Repairs on Steamers, Hose Carriages, etc....	1,313 12
Exchange of horses.....	1,314 00
Boilers for heating buildings.....	486 76
New hose and repairing.....	1,049 72
Hay, grain and straw.....	2,874 45
Harnesses and repairs.....	239 84
Telephone and rental of instruments.....	320 00
Beds and bedding.....	350 97
Veterinary services and medicine.....	92 65
<i>Amount carried forward.....</i>	<i>\$56,084 60</i>

Amount brought forward.....\$56,084 60

Horse shoeing and repairs of wagons.....	329 71
Rent.....	130 00
Hook and Ladder Carriage.....	177 00
Lanterns, badges, etc.....	72 25
Labor on pipe, hydrants, etc.....	54 25
Coal	1,017 38
Gas.....	429 59
Oil, sponges, brooms, dusters, soap, etc.....	328 88
Printing, stationery, etc.....	13 65
Matches.....	24 00
Express and freight.....	25 06
Seven 4-way Chucks.....	525 00
Incidentals	218 10
	<hr/>
	\$59,429 47
Balance.....	<hr/>
	\$ 2,719 93
	<hr/>

FORCE.

The Department consists of a Chief and four Assistant Engineers; one Fire Alarm Telegraph Operator; three Steam Fire Engine Companies, one of twelve and the other two of eleven men; four horse Hose Companies of nine men; one hand Hose Company of ten men; two Hook and Ladder Companies, one of ten and the other of fifteen men; and one Protective Company of seven men; making a total of one hundred and eighteen men; of which twenty-three are permanent and devote their whole time to the interest of the

City; the remaining ninety-five men are subject to call only during an alarm of fire; the efficiency of the Department has been increased by the promotion of nine Call Men to the permanent force; during the past year a hand Hose Company of ten men has been organized in Pawtucketville under the rules and regulations of the Department, receiving a small compensation, and only respond to alarms in that immediate section, unless called by a general alarm. In addition to the duties pertaining to his office, the Chief has charge of all street lights.

APPARATUS.

The apparatus of the Department is kept in the best possible condition, and comprises four Steam Fire Engines; seven four-wheeled Horse Hose Carriages; two Hook and Ladder Trucks, and one Protective Wagon fully equipped; seven Hose Reels on runners; Horse, Harness, Wagon and Sleigh for the use of the Chief; two traverse-runner Sleighs; eight exercise or fuel wagons. In addition to the above we have a Hook and Ladder truck, and a four-wheeled Horse Hose Carriage loaded with Hose and kept in No. 5's house; a two-wheeled Horse Hose Carriage kept in No. 7's

house ; three four-wheeled Hand Hose Carriages with five hundred feet of Hose on reel, one stationed in Pawtucketville, one at Ayer's City, the other at the City Poor Farm. During the year the following new apparatus was purchased : One second class Amoskeag Engine, and placed in charge of Company No. 2; one Hook and Ladder Truck, stationed in No. 5's house in Centralville ; seven 4-way Chucks, and twenty-seven Magnetoe Call Bells for Telephone Use.

FIRE ALARM TELEGRAPH.

This important branch of the service has been ably performed by the Operator George B. Whitney ; the work of this branch is continuous and exacting, and the greatest care has to be exercised to protect the wires from interference with the telephone and other wires ; but the lines have been kept in perfect working order during the year ; the past year we have replaced and put in about fifty new poles ; a considerable number will have to be replaced this year ; also we have taken down about six miles of old compound wire and put up the best No. 9 galvanized iron wire instead ; there are some miles of old wire yet to be renewed ; there have been two Signal Boxes

added the past year ; 56, Middle street, Engine House; 57, Warren street, opposite George street, making the whole number 52 ; also a small gong in Huntington Hall has been added. Connected with the service are eight bell strikers, ten Engine House Gongs, seven Engineers' Gongs, ten electrical arrangements for opening stall doors, etc., ten Registers, one six-circuit non-interfering Repeater, one cut out and testing Switch Board, seven Galvanometers, two hundred and seventy-nine Cups of Battery, forty-one miles Wire and two hundred poles.

TELEPHONE.

During the year the old Battery system has been changed to the Magnetoe Bell, also the Lighting Department Station has been added, making fifteen (15) stations in all ; it still continues to work well and has given good satisfaction.

HORSES AND HARNESSES.

The number of horses belonging to the Department is eighteen and are all in good condition ; one (1) died, three (3) have been procured by change during the year. There are eight pairs of double and nine

single harnesses, of which, six (6) pairs of double and six (6) single are the Berry patent swinging harnesses. By the substitution of swinging harness for that previously in use, the horses are relieved from the fatigue, caused by constantly wearing the harness; it is also a great saving of expenditures, as the harnesses were constantly needing repairs.

HOSE.

One thousand feet of new cotton (rubber lined) hose has been purchased the past year, making twelve thousand four hundred and fifty feet of 2 1-2 inch hose now in use; five hundred feet rubber, thirty-two hundred and fifty feet cotton (rubber lined), and the balance leather.

HYDRANTS.

During the year twenty-three new Post and one new Flush hydrants have been added and one discontinued, making a total number of hydrants seven hundred and nine, for which, this department is charged annually twenty dollars each; the Post hydrants added are located on Beach, Bowers, Bridge, Belmont, Columbus Avenue, Court, Chelmsford, Edson, East Merrimack, Eleventh, Fulton, Fairview, Fremont, Har-

rison Avenue, Mansur, Pine Hill, School and Shaw Streets, one each, Stevens two and Fairmount three ; one flush hydrant has been set on Warren Street ; five old style post hydrants on Cushing and one on Adams Street have been removed and new post hydrants set in their places ; one old flush hydrant on Dutton Street has been discontinued. The past winter has been very severe, the hydrants needing constant care to keep them from freezing. The amount paid by this department for water last year was \$14,267.13, in view of the fact that the amount paid for water is entirely out of proportion to the quantity consumed, I would suggest that the amount be raised by a special appropriation ; while it would not reduce the appropriation for Water Works, it would show a large reduction in the expenses of this department.

PROTECTIVE DEPARTMENT.

This organization consists of one Company of seven men, two of which are permanent ; one wagon drawn by two horses, fully equipped with all the paraphernalia requisite for the protection of property from damages by water, and are maintained by the City ;

the promptness and efficiency of this department have been the means of saving much valuable property the past year.

HOUSES.

The houses of the Department are in very good repair, except the sleeping room of Hook and Ladder Company No. 1; it is very small and has no ventilation; the Fire Alarm battery room is small and very inconvenient, and I would recommend that another story be added to the house on Middle Street, and remove the battery to the new story, which would give plenty of room for sleeping apartments.

FIRES AND LOSSES.

The whole number of alarms of fire, which occurred during the year ending March 31st, 1883, was seventy-seven, of which forty were given from signal boxes, twenty-one by telephone, and sixteen still alarms responded to by a portion of the Department, showing a decrease of thirteen over last year; there have been seven slight fires extinguished by members of the Police force, also a number extinguished by citizens without the aid of the Department. The whole amount of loss by fire, as near as can be ascertained, was

only fifty-three thousand five hundred and eighty-three dollars and twelve cents (\$53,583.12); the whole amount of insurance was one hundred twenty-four thousand seven hundred and twenty-five dollars (124,725.00); the amount of insurance paid was thirty-seven thousand thirty-three dollars and twelve cents (\$37,033.12), making the whole amount of loss above insurance sixteen thousand five hundred and fifty dollars (\$16,550.00) of which, sixteen thousand (\$16,000.00) was lost at two fires; several fires during the year were of a threatening character, and the Department by their prompt action in each instance, sustained their well earned reputation; the two principal fires of the year, was the Central Bridge, which fell in about twenty minutes after the alarm was given, with eight firemen, into the river below, a loss of fifteen thousand dollars was sustained without any insurance; the other was the Lowell Print Works, it was caused by one of the employes entering the dry room with a lantern looking for a gas leak, sending a flash of fire instantly over the whole room, and before an alarm could be given the fire had made considerable headway, but it was soon got under control, but the loss was large owing to the nature of

the contents of the building, there being a large stock of print cloths on hand, and with the copper shells making the loss twenty-one thousand four hundred and fifty-seven dollars, with an insurance of sixty-five thousand eight hundred dollars; one other threatening fire occurred in the Robbins Block on Merrimack street, occupied by dry and fancy good stores with offices and lodging rooms above, but the early discovery and the promptness with which the Department responded, prevented a great destruction of property, the loss at this fire was only eight thousand one hundred and fifty-two dollars.

June 24th, I received a telephone message from the Chief of Lawrence for assistance from this Department, without any apparatus, as his men were exhausted on account of the smoke; through the kindness and liberality of the Boston & Lowell Railroad Company, a train was despatched as soon as possible with about seventy members of this Department; arriving in Lawrence about five o'clock A. M., they immediately relieved their brother firemen, and found a stubborn fire burning in bale cotton stored in the basement of the storehouse of the Pacific Mills; and with the firemen from Haverhill and Andover remained on duty

until noon, when they were relieved by the Lawrence Department, arriving home about five o'clock P. M.

The following deaths by burning have occurred the past year: Miss Bridget Crowley, No. 12 Johnson's Block, Merrimack street; Mrs. J. F. Convery, No. 38 Suffolk street; Mrs. Abigail Foster, No. 27 Church street; Mrs. Emma Catthaus, Hildreth street and Harry E. Smith, Cosgrove street.

Several casualties have occurred to the members of the Department, none of which were very serious. The following is a list of the injured:

J. H. Stackpole and W. H. Dana of Steamer Company No. 3.

J. D. King, Geo. Wyman and Ed. Meloy of Hose Company No. 4.

Jas. McCormack of Hose Company No. 6.

W. N. Flagg of Hook and Ladder No. 2.

A. C. Walton of the Protective Company.

THE LOWELL FIREMAN'S FUND ASSOCIATION.

This benevolent association was organized Dec. 17th, 1853, for the purpose of affording relief to such of its members as should receive injuries while in the discharge of their duties; the importance of this asso-

ciation to the Department cannot be overestimated. The income is derived by an annual assessment upon each member; by donations from citizens; and this year by a Concert and Ball, to which the citizens were solicited to purchase tickets, and in behalf of the association I would return thanks, to those citizens, who have aided them. The receipts for the past year, have been two hundred and eleven dollars for assessments, and eleven hundred forty-five dollars and forty cents for the ball, and the expenditures four hundred fifty-seven dollars and seventy cents.

CONCLUSION.

I respectfully renew my recommendation of a year ago, that an Ordinance should be passed regulating the sale of kerosene or so called non-explosive fluids; also our building laws are very imperfect, and in fact we have none; we have a small fire district, but citizens wishing to make additions or enlargements of their buildings apply to the Board of Aldermen for a license which is usually granted; and new buildings which are being built in the district are not looked after by any one, and consequently are not built strictly after the ordinance, and outside of the district per-

sons erect large four and five story wooden buildings for stores and tenements, without a fire wall or fire escape, and in many cases with only one very narrow stairway to the upper stories, which are nothing more than a death trap for those that occupy them; another trouble arises from the bad construction of some of our chimneys, and in parts of the city a hole cut through the roof or side of a building with a stove pipe stuck through for a chimney, not only endangering their own but the adjoining property to destruction. The infrequency of fires the past year ought not to make us unmindful of our duty looking to the safer protection of the future of our city; there should be stringent building laws made both in regard to the nature and constructions of buildings and for an Inspector of buildings whose duty it should be to examine and approve the plans of all buildings and to see that the conditions prescribed by the laws are complied with as regards the public safety; and who should have power to remove dangerous buildings and structures. In closing this report I desire to express my thanks to his Honor the Mayor, the Board of Aldermen, and members of the City Council for the interest manifested and the support given to the requirements of the Department

during the year; to the Committee on Fire Department for their hearty co-operation in all matters tending to the improvement of the Department; to the Marshal and other members of the Police force, for their valuable assistance at fires and on other occasions; to the City Clerk, Auditor, Treasurer, Superintendent of Streets and Water Works, and all other officials with whom I have had pleasant intercourse; to my Assistant Engineers, and the officers and members of the several companies, for the prompt and efficient manner they have responded to all alarms, the support and good will manifest to me on all occasions and their efforts to sustain the reputation of the Department.

Respectfully submitted,

EDWARD S. HOSMER,

Chief L. F. D.

FIRE DEPARTMENT.

MARCH, 1883.

EDWARD S. HOSMER, CHIEF ENGINEER.

Residence, 12 Livermore Street. Office, Engine House, Middle Street.

ASSISTANT ENGINEERS.

*HIRAM N. HALL, Residence, 84 High Street.

JAMES F. NORTON, Residence, 282 Central Street.

JOSIAH W. WHITE, Residence, 26 Third Street.

SAMUEL W. TAYLOR, Residence, 71 L. M. S. Corp.

TELEGRAPH OPERATOR.

GEORGE B. WHITNEY.

Residence, - - 80 Middle Street.

COMMITTEE ON FIRE DEPARTMENT FOR 1883.

ALDERMEN G. B. SMITH, D. M. PRESCOTT.

COUNCILMEN L. J. SMITH, GEO. ASHWORTH, GEO. BENNETT.

*Secretary of Board of Engineers.

CHIEF ENGINEER FIRE DEPARTMENT.

19

HOPE STEAM FIRE ENGINE CO., No. 1.

ELEVEN MEMBERS. HOUSE ON GORHAM STREET.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
11	Foreman,	B. F. Crosby,	39	Stucco Work'r	79 Moore St.
18	Ass't Foreman,	O. J. Gilbert,	33	Provisions,	19 Elm St.
1	Driver,	J. Cowell,	35	Driver,	Engine House.
13	Engineer,	J. J. Locke,	49	Machinist,	7 S. Highland St.
14	Ass't Engineer,	E. C. Kelley,	32	Machinist,	11 Burns St.
12	Hoseman,	E. A. Gerry,	25	Provisions,	8 Favor St.
15	"	C. D. Foley,	28	Carpenter,	31 Newhall St.
16	"	E. W. Proctor,	28	Carpenter,	197 Central St.
17	"	C. F. Hayden,	42	Stonecutter,	Lincoln St.
10	"	G. W. Lovett,	32	Permanent,	Engine House.
19	"	G. M. Clary,	32	Manufacturer,	Engine House.

TORRENT STEAM FIRE ENGINE CO., No. 2.

TWELVE MEN. HOUSE ON BRANCH STREET.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
20	Foreman,	A. C. Stearns,	42	Permanent,	Engine House.
25	Ass't Foreman,	C. W. Merriott,	46	Carpenter,	Middlesex St.
2	Driver,	H. Boynton,	31	Driv'r H. C'g'e	Engine House.
90	Driver,	F. B. Akers,	25	Driver S. F. E.	Engine House.
28	Engineer,	Geo. Maddocks,	38	Machinist,	Engine House.
29	Ass't Engineer,	C. S. Hibbert,	37	Machinist,	39 Branch St.
26	Hoseman,	J. Hill,	33	Piper,	229 Middlesex St.
21	"	J. W. Abbott,	36	Carpenter,	7 Goward Court.
27	"	S. E. Bartlett,	34	Clerk,	22 Queen St.
23	"	M. J. Burns,	28	Carpenter,	Engine House.
22	"	H. R. Morrison,	23	Machinist,	Engine House.
24	"	F. Boynton,	21	Machinist,	Engine House.

REPORT OF THE

WAMESIT STEAM FIRE ENGINE CO., No. 3.

ELEVEN MEMBERS. HOUSE ON MIDDLE STREET.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
31	Foreman,	J. H. Stackpole,	41	Manufacturer,	26 Stackpole St.
30	Ass't Foreman,	Frank Hoyt,	34	Permanent,	Engine House.
3	Driver,	E. J. Little,	36	Driver,	Engine House.
33	Engineer,	E. L. Brown,	46	Machinist,	120 Merrimack Corp.
34	Ass't Engineer,	J. G. Merchant,	44	Engineer,	188 Westford St.
32	Hoseman,	J. W. Halstead,	34	Manufacturer,	16 Branch St.
36	"	F. Bowden,	30	Manufacturer,	29 Stackpole St.
35	"	D. W. Hilliard,	32	Carpenter,	Moody St.
37	"	Frank Roark,	33	Lighter,	Middle St.
38	"	A. Kennedy,	25	Painter,	Bridge St.
39	"	W. H. Dana, Jr.,	24	Machinist,	1 Machine Corp.

MAZEPPA HOSE CO., No. 4.

NINE MEMBERS. HOUSE ON FAYETTE STREET.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
40	Foreman,	W. H. Halstead,	38	Permanent,	Hose House.
41	Ass't Foreman,	J. J. Quinlan,	30	Machinist,	22 Bartlett St.
4	Driver,	William King,	40	Driver,	Hose House.
42	Hoseman,	E. Meredith,	45	Painter,	54 Fayette St.
45	"	Chas. Morse,	41	Finisher,	88 Fayette St.
43	"	Edw. Meloy,	36	Gas Fitter,	94 Charles St.
44	"	M. Connor,	30	Plasterer,	36 Pond St.
46	"	J. D. King,	30	Lather,	Hose House.
47	"	J. E. Burns,	22	Clerk,	7 Prescott Corp.

WELLMAN HOSE CO., No. 5.

NINE MEMBERS. HOUSE ON FOURTH STREET, CENTRALVILLE.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
51	Foreman,	G. W. Patten,	29	Florist,	34 W. Third St.
50	Ass't Foreman,	A. E. Kidder,	28	Permanent,	Hose House.
5	Driver,	T. J. Farrell,	31	Driver,	Hose House.
52	Hoseman,	Caleb Rogers,	49	Manufacturer,	11 Fifth St.
53	"	H. Miller,	29	Piper,	29 Fourth St.
54	"	A. Merrill,	47	Truckman,	29 Fifth St.
55	"	F. Mansur,	33	Manufacturer,	12 Third St.
56	"	E. Boyle,	37	Truckman,	49 River St.
57	"	J. Smith,	32	Clerk,	49 River St.

EXCELSIOR HOSE CO., No. 6.

NINE MEMBERS. HOUSE ON CENTRAL STREET.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
61	Foreman,	E. Cunningham,	35	Gas Fitter,	82 Charles St.
60	Ass't Foreman,	Chas. Riley,	27	Permanent,	Hose House.
6	Driver,	E. J. O'Connell,	25	Driver,	Hose House.
62	Hoseman,	P. Curtin,	30	Moulder,	11 Bassett St.
63	"	R. O'Connell,	27	Tinsmith,	224 Gorham St.
65	"	N. Prevencher,	26	Painter,	53 Appleton St.
64	"	J. Blackburn,	25	Plumber,	16 Summer St.
66	"	P. Emerson,	24	Carpenter,	47 Hudson St.
67	"	E. F. Crowley,	29	Coppersmith,	28 Cady St.

MECHANICS HOSE CO., No. 7.

NINE MEMBERS. HOUSE ON COR. FLETCHER AND WEST CLARK STREETS.

Badge	Rank.	Name.	Age.	Oecupation.	Residence.
70	Foreman,	D. J. Hurley,	31	Permanent,	Hose House.
71	Ass't Foreman,	E. W. Fleteher,	29	Moulder,	L. M. S. Corp.
7	Driver,	J. A. Pierce,	34	Driver,	Hose House.
73	Hoseman,	J. H. Joyee,	40	Moulder,	42 Butterfield St.
74	"	S. O. Wade, Jr.,	30	Stoneeutter,	Hose House.
75	"	J. E. Firth,	28	Blacksmith,	Cross St.
77	"	J. A. Fleteher,	26	Moulder,	Franklin Court.
78	"	J. F. Williams,	30	Stoneeutter,	Branch St.
72	"	T. J. McDonald,	30	Clerk,	14 Franklin St.

WILSON HOSE CO., No. 8.

TEN MEMBERS. HOUSE IN PAWTUCKETVILLE.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
91	Foreman,	C. E. Luscomb,	44	Painter,	Second Avenue.
92	Ass't Foreman,	J. L. Stevens,	33	Mason,	1 Poplar St.
93	Clerk,	C. G. Coburn,	33	Clerk,	10 Varnum Avenue.
94	Hoseman,	J. W. Cassidy,	40	Dry Goods,	Mt. Grove St.
95	"	J. P. Fowler,	34	Carpenter,	Fourth Avenue.
96	"	A. F. Cogger,	38	Blacksmith,	Fourth Avenue.
97	"	A. H. Vining,	39	Carpenter,	Mammoth St.
98	"	C. H. Luscomb,	24	Painter,	Second Avenue.
99	"	Hiram Vining,	36	Carpenter,	Fourth Avenue.
116	"	A. J. Mitchell,	29	Harness M'ker	Riverside St.

FRANKLIN HOOK AND LADDER CO., No. 1.

FIFTEEN MEMBERS. HOUSE ON MIDDLE STREET.

Badge	Rank.	Name.	Age.	Occupation.	Residence.
102	Foreman,	H. B. Downs,	48	Carpenter,	47 Hamilton Corp.
101	Ass't Foreman,	F. E. Fuller,	34	Permanent,	H. and L. House.
100	Driver,	W. L. Peabody,	34	Driver,	H. and L. House.
104	Ladderman,	N. Bishop,	44	Spinner,	120 Lawrence Corp.
105	"	H. C. Dagett,	57	Carpenter,	6 Prescott Corp.
106	"	J. A. Pullen,	54	Machinist,	161 Merrimack Corp
107	"	W. C. Furnald,	30	Machinist,	H. and L. House.
108	"	Wm. Marsden,	29	Painter,	48 Mass. Corp.
109	"	H. S. Gardner,	31	Moulder,	25 Worthen St.
111	"	J. C. Jones,	40	Carpenter,	29 Fifth St.
112	"	C. M. Brooks,	32	Carpenter,	44 Merrimack Corp.
114	"	Geo. Sargent,	29	Carpenter,	23 W. Fourth St.
115	"	F. Simons,	31	Bill Poster,	H. and L. House.
103	"	C. W. Dana,	27	Carpenter,	74 L. M. S. Corp.
113	"	C. H. Stackpole,	26	Moulder,	Brook's Court.

REPORT OF THE

GEORGE HOBSON HOOK AND LADDER CO., No. 2.

TEN MEMBERS. HOUSE ON WARREN STREET.

Badge	Rank.	Name.	Age.	Oeeupation.	Residence.
122	Foreman,	H. W. Burton,	41	Wire Worker,	4 Kimball Avenue.
124	Ass't Foreman,	Wm. Roberts,	52	Expressman,	27 Hildreth St.
120	Driver,	H. J. Foster,	32	Driver,	H. and L. House.
123	Ladderman,	David Pickman,	59	Machinist,	52 Pleasant St.
121	"	C. F. Hemenway,	32	Permanent,	H. and L. House.
125	"	G. W. Aleott,	29	Carpenter,	10 Livermore St.
126	"	James Winslow,	30	Dyer,	H. and L. House.
127	"	W. W. Flagg,	37	Carpenter,	119 Merrimack St.
128	"	G. M. Dickerman,	45	Machinist,	91 Tremont St.
129	"	C. A. Thompson,	39	Carpenter,	2 Varney St.

PROTECTIVE CO., No. 1.

SEVEN MEMBERS. HOUSE ON WARREN STREET.

Badge	Rank.	Name.	Age.	Oeeupation.	Residence.
80	Foreman,	J. L. Flagg,	47	Permanent,	Protective House.
83	Ass't Foreman,	W. P. Wiley,	29	Bleacher,	96 Merrimack St.
8	Driver,	J. J. Harrington,	32	Driver,	Protective House.
81		A. C. Walton,	44	Manufacturer,	48 Mass. Corp.
82		H. Coulam,	29	Manufacturer,	18 Hurd St.
85		L. S. Kimball,	32	Roll Coverer,	11 John St.
84		J. Starr,	26	Machinist,	Gorham St.

SCHEDULE OF PROPERTY

UNDER THE CHARGE OF THE CHIEF OF THE FIRE DEPARTMENT.

IN CARE OF STEAMER CO., No. 1.

Steamer built by Union Machine Co., of Fitchburg, Mass., in 1872; has two double-acting steam cylinders, $7\frac{1}{8}$ inches in diameter, 8 inches stroke; 2 double-acting pumps, $4\frac{3}{8}$ inches in diameter, arranged to work separately or together; weight when loaded, 7,575 lbs. One two-horse hose carriage, built by the Amoskeag Co. of Manchester, N. H.; 1 pair horses, 1 two-way chuck, 1 four-way chuck, 1 branch connection, 2 hose pipes with stop nozzles, 1,550 feet $2\frac{1}{2}$ -inch leather hose, 500 feet $2\frac{1}{2}$ -inch cotton hose, rubber lined; 50 feet 1-inch cotton hose, 1 $2\frac{1}{2}$ -inch brass cap, $5 \times 2\frac{1}{2}$ reducer, 4 small reducers, 12 spanners, 6 lanterns, 3 wrenches, 6 ladder straps, 5 iron bars, 2 axes, 1 bucket, 1 traverse-runner hose sleigh, 1 fuel wagon, 1 pair lead bars, 1 set double harnesses, 1 pair horse blankets, 1 pair hoods, 1 set blocks and tackle, 4 beds and bedding, 1 mirror, two bureaus, 16 chairs, 3 shovels, 2 forks, 2 brooms, one 30-foot rope, 1 pail, 2 ladders, 1 steam boiler, 1 coal hod, 1 iron ash hod, 4 coal boxes, 1 clock, 1 jack screw, 1 work bench and vice, 4 spittoons, 1 chisel, 2 sets shafts, 3 oil cans, 1 carriage jack, 1 copper gooseneck, 1 basket, 1 boiler, radiator, etc., 13 badges, 11 set regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

IN CARE OF STEAMER CO., No. 2.

Steamer built by Blood Locomotive Works, Manchester, N. H.; weight when loaded, 7,600 lbs. One horse hose carriage built by Leverich & Co. of New York, 1,250 feet $2\frac{1}{2}$ -inch leather hose, 550 feet $2\frac{1}{2}$ -inch cotton hose, rubber lined; 75 feet 1-inch cotton hose, 1 hose sleigh, 2 wagons, 1 traverse-runner sled, 3 horses, 1 set double harnesses, 2 single harnesses, 2 breast plates, 5 blankets, 3 hoods, 1 two-way chuck and reducer, 1 four-way chuck, 1 branch connection, 3 hose pipes with stop nozzles, 6 spanners, 6 ladder straps, 2 hydrant wrenches, 2 axes, 2 bars, 1 jack screw, 2 pair lead bars, 6 coal boxes, 11 arm chairs, 12 cane seat chairs, 3 mirrors, 2 bureaus, 1 clock, 1 work bench and vice, 5 beds and bedding, 1 steam boiler, radiators, etc., 1 set blocks, 5 ash hods, 1 table, 15 badges, 15 set regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

IN CARE OF STEAMER CO., No. 3.

Steamer built by Hunneman & Co. in 1866; weight when loaded, 7,650 lbs.; 30 feet suction hose with hydrant couplings, 1 hose carriage with shafts and poles, 1 hose sleigh, 1 whiffletree, 2 horses, 2 pair double harnesses, 1 single harness, 4 halter bridles, 4 horse blankets, 2 hoods, 950 feet leather hose, 700 feet $2\frac{1}{2}$ -inch cotton hose, rubber lined; 50 feet 1-inch cotton hose, 2 two-way chuck and reducer; 1 four-way chuck, 1 reducer and cap, 2 pipes and stop nozzles, 2 branch connections, 2 hydrant wrenches, 4 spanners, 1 bar, 2 shovels, 4 ladder straps, 6 lanterns, 3 beds and bedding, 2 mirrors, 1 clock, 20 chairs, 1 hose rope, 1 jackscrew, 1 monkey wrench, 1 carriage jack, 1 steam boiler, radiators, etc., 12 badges, 11 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

IN CARE OF HOSE CO., No. 4.

One horse hose carriage, built by Abbott Downing Co. of Concord, N. H.; 1 horse, 2 harnesses, 2 blankets, 1 four-way chuck, 1 two-way chuck, 2 hydrant wrenches, 3 hose pipes and 2 stop nozzles, 10 spanners, 1 branch connection and cap, 4 reducing couplings, 3 bars, 8 ladder straps, 6 lanterns, 1 monkey wrench, 15 feet $\frac{3}{4}$ -inch rubber hose, 500 feet $2\frac{1}{2}$ -inch rubber hose, 500 feet $2\frac{1}{2}$ -inch leather hose, 1 carriage jack, 1 clock, 2 mirrors, 1 stove, 1 table, 1 flag, 1 ladder, 11 chairs, 1 ash hod, 1 coal hod, 1 coal sifter, 1 duster, 2 shovels, 2 water pails, 1 S wrench, 5 spittoons, 1 map, 1 hose sleigh, 1 fuel wagon, 3 beds and bedding, 2 bureaus, 11 badges, 9 sets regulation buttons, and all tools for cleaning horse.

IN CARE OF HOSE CO., No. 5.

One horse hose carriage, built by the Manchester Locomotive Works; 1 hook and ladder truck, loaded with 1 15 and 4 32-foot ladders; 1 horse hose carriage, built by J. J. Wright & Co., loaded with 550 feet of leather hose kept in reserve; 1 horse, 1 harness, 2 bridles, 600 feet $2\frac{1}{2}$ -inch leather hose, 500 feet $2\frac{1}{4}$ -inch cotton hose, rubber lined; 50 feet $\frac{3}{4}$ -inch rubber hose, 2 hose pipes and stop nozzles, 1 spray, 1 reducer, 1 wooden pail, 21 chairs, 2 beds and bedding, 1 reducing coupling, 1 cap, 8 spanners, 2 wrenches, 6 lanterns, 2 bars, 1 ladder, 1 axe, 1 carriage jack, 3 shovels, 3 brooms, 2 forks, 1 clock, 1 duster, 1 sifter, 1 hose sleigh, 3 spittoons, 1 pair steps, 1 two-way chuck, 1 four-way chuck, 1 connection, 1 oil can, 1 table, 140 feet $\frac{3}{4}$ -inch rope, 1 iron pulley, 1 set pulley blocks, 2 ash hods, 1 wagon, 3 horse blankets, 1 steam boiler, radiators, etc., 10 badges, 9 sets regulation buttons, and all tools for cleaning horse.

IN CARE OF HOSE CO., No. 6.

One horse hose earriage, built by Manchester Locomotive Works ; 1 hose sleigh, 1 horse, 1 harness, 1 blanket, 2 forks, 2 brooms, 2 beds and bedding, 1,400 feet leather hose, 3 pipes, 2 stop nozzles, 6 lanterns, 1 axe, 1 two-way chuck, 1 four-way ehuck, 1 redueer, 2 hydrant wrenehes, 1 reducing coupling, 1 brass cap, 1 bar, 4 spanners, 3 ladder straps, 1 eonnection, 1 duster, 1 brush, 18 ehairs, 4 spittoons, 1 mirror, 1 earriage jack, 35 feet $\frac{1}{2}$ -inch rubber hose, 1 cloek, 1 eoal hod, 1 hose rope, 1 oil ean, 2 shovels, 1 pail, 1 step-ladder, 1 wagon, 1 earriage pole, 1 dressing ease, 1 steam boiler, radiator, etc., 1 bridle, 11 badges, 9 sets regulation buttons, and all tools for eleaning horse.

IN CARE OF HOSE CO., No. 7.

One horse hose earriage, built by Manchester Locomotive Works ; steamer built by Hunneman & Co., in 1868, and 1 two wheeled hose carriage kept in reserve ; 1 horse, 1 hose sleigh, 1 harness, 1 halter bridle, 2 blankets, 1 hood, 1,000 feet $2\frac{1}{2}$ -inch cotton hose, rubber lined ; 400 feet leather hose, 2 pipes and stop nozzles, 4 spanners, 1 two-way chuck, 1 four-way ehuck, 1 large and 1 small reducer, 1 bar, 2 brooms, 1 carriage jack, 2 pails, 1 connection with eap, 4 ladder straps, 1 duster, 1 ladder, 1 brush, 6 lanterns, 4 spittoons, 1 shovel, 15 ehairs, 3 beds and bedding, 1 wagon, 2 axes, 1 ash hod, 1 clock, 1 mirror, 1 steam boiler, radiators, etc., 11 badges, 11 sets regulation buttons, and all tools for eleaning horse.

IN CARE OF HOSE CO., No. 8.

One hose earriage, 500 feet hose, 1 stove, 4 kerosene lamps, 10 ehairs, 1 table, 2 pipes, 1 two-way ehuck, 1 earriage jack, axes, lanterns, etc., 10 badges, 10 sets regulation buttons.

IN CARE OF HOOK AND LADDER CO., No. 1.

Hook and ladder truck with tiller, built by Buckley & Merritt, New York; 1 Bangor ladder, 65 feet; 1 40 feet, 1 36 feet, 1 25 feet, 1 20 feet, 2 30 feet each; 2 roof ladders, 15 and 25 feet; 1 12-foot ladder, 4 forks, 4 axes, 4 buckets, 4 lanterns, 2 shovels, 1 bunter, 1 bar, 1 wrench, 2 horses, 1 set double harnesses, 2 blankets, 1 fuel wagon, 1 traverse-runner sleigh, 10 hooks, 20 feet $\frac{1}{2}$ -inch rubber hose, 100 feet rope, 8 chairs, 2 brooms, 1 mirror, 1 steam boiler, radiators, etc., 17 badges, 15 sets regulation buttons, and all tools for cleaning horses.

IN CARE OF HOOK AND LADDER CO., No. 2.

Hook and ladder truck, built by Juckett & Freeman, of Boston; 1 Bangor and 1 Leverich ladder, each 55 feet long; 2 roof ladders, 1 18 feet and 1 16 feet long; 5 other ladders, 2 32 feet long, 2 22 feet long, and 1 12 feet long; 6 props, hooks, 4 axes, 2 adjustable hooks for roof ladders, 2 shovels, 2 lanterns, 3 forks, 3 rakes, 1 bar, 1 bunter, 1 Siamese connection, 200 feet rope, 3 pails, 1 sledge, 1 whip, 1 carriage jack, 13 chairs, 1 table, 1 mirror, 1 clock, 1 duster, 1 water pot, 1 brush, 50 feet $\frac{3}{4}$ -inch hose, 2 horses, 2 harnesses, 2 blankets, 2 halter bridles, 4 beds and bedding, radiators, etc., 12 badges, 12 sets regulation buttons, and all tools necessary for cleaning horse.

IN CARE OF PROTECTIVE CO., No. 1.

One wagon complete, 2 horses, 1 pair double harnesses, 2 horse blankets, 28 covers, 1 canvas blanket, 4 extinguishers, 75 feet $\frac{3}{4}$ -inch rubber hose, 4 paper pails, 4 large sponges, 4 brooms, 3 shovels, 2 axes, 4 squill-gees, 1 pick, 1 crowbar, 7 lanterns, 2 Johnson pumps, 100 bbls. vitriol, 40 lbs. of bicarbonate soda, 18 bottles for vitriol, 24 soda cans, 4 beds and bedding, 1 fire shovel, 1 monkey wrench, 1

carriage jack, 1 stable broom, 1 copper boiler, 2 stable pails, 3 spittoons, 1 mop, 1 desk, 1 bureau, 14 chairs, 1 feather duster, 1 chamois skin, 1 oil can, 1 mirror, 2 ash cans, 1 clock, 1 sleigh complete, 200 feet of old rope, 1 lath rake, 1 steam boiler, radiators, etc., 9 badges, 8 sets regulation buttons, and all tools for cleaning horses.

IN CARE OF FIRE ALARM OPERATOR.

One six-circular automatic non-interference repeater ; 1 cut-out and testing switch-board, 8 galvanometers, 52 signal boxes (non-interfering), 8 bell strikers, 10 large gongs, 7 small gongs, 10 registers, 10 electrical arrangements for opening stall doors, etc., 52 miles wire, 279 cups Hill's battery, 27 magnetoe call bells, 118 battery cups, 118 zincs, 150 hangers, 200 poles, 90 chestnut poles, 200 feet kerite wire, 4 4-foot cross arms, 50 roof brackets, 15 key boards, arresters, etc., 25 glass insulators, 12 rubber hook insulators, 24 call bells, 1 saw, 1 hammer, 2 screwdrivers, 2 straps with vices, 2 draw straps and clutches, pliers, tongs, set of bits and bitstock, 1 shovel, 1 bar, 1 pickaxe, 2 spoons, 1 tamping bar, 1 cant hook, 1 rope, 1 broad axe, 2 draw shaves, fire alarm box keys, locks, outside shells and doors to boxes, pocket relay lanterns, chairs, table, feather dusters, chamois skins, mops, waste, lamp wicks, lantern globes, sponges, harness, castile and washing soaps, sal soda, polishing and harness oils, ropes, spanners, hydrant wrenches, stable brooms, corn brooms, pails, matches, hoof ointment, mashers, mane brushes, axle grease, ladder straps, emery cloth, rotten stone, candles, etc.

OTHER PROPERTY BELONGING TO THE DEPARTMENT.

One horse, wagon, sleigh and harness, 2 four-wheeled hand hose carriages, 1 truck which is used for teaming pipe and other heavy work, 1 two-way chuck, 1 gooseneck and other tools for working on hydrants, 2 hand extinguishers kept on the stage at Huntington Hall. There is also at the Chief's office: 1 desk, set of drawers, table, 16 chairs, 1 respirator, 1 silver and two brass trumpets with case, looking-glass, department badges and buttons, lanterns, water gauge, 1 set dies for department badges, 3 sets dies for regulation buttons, etc. The value of the above-named property is \$85,778.00.

FIRES AND ALARMS FROM APRIL 1, 1882, TO MARCH 31, 1883.

Date.	Time.	Signal.	Location.	Owner or Occupant.	Damage.	Ins'ance.	Ins. Paid.	Occupied As	Cause of Fire.	Remarks.
APR 1, '82	9. p.m.	12	Middle street,	Langley & Smith,	\$ 50 00	\$ 2,000 00	\$ 50 00	Junk Shop,	Combustion of rags	
" 4	12.30 m.	61	Bleachery,	Lowell Bleachery,	450 00			Singe House,	Unknown,	
" 6	12.40 m.	5	Fletcher street,	Geo. McNaboe,				Saloon,	Sparks from chim.,	Hose 5 responded.
" 6	11.50 a.m.	Still,	Durant "	Locks and Canals,				Dwelling,	Brush,	
" 6	8.50 p.m.	31	Fayette "	A. Miles,				Dwelling,	Chimney,	Hose 5 responded.
" 6	9.10 p.m.	Still,	" "	J. M. G. Parker,				Dwelling,	Chimney,	G. B. Whitney resp.
" 16	2.10 p.m.	"	Bridge "	Locks and Canals,				Dwelling,	Brush,	Hose 5 responded.
" 23	6.30 p.m.	"	Riverside "	W. S. Morse,				Dwelling,	Felt fr. steam pipe,	
" 27	6. p.m.	Teleph.	" "	Coburn Shuttle Co.,	100 00	300 00	100 00	Dry House,	From steam pipe,	
" 27	7.40 p.m.	Still,	Moody "	John Ayer,				Dwelling,	Chimney,	
" 28	10.50 a.m.	24	Winter "	A. C. Wheelock,				Dwelling,	Incendiary,	G. B. Whitney and E.
May 3	4.50 p.m.	Teleph.	Middlesex "	Wm. E. Livingston				Summer House	Unknown,	[J. Little resp.
" 4	12.15 m.	Still,	" "	C. Hovey,				Dwelling,	Unknown,	
" 4	12.30 m.	52	Moody "	G. W. Harris,	153 00	1,500 00	153 00	"	Chimney,	
" 6	8.05 a.m.	28	Cheever "	G. S. Harris,	325 00	2,500 00	325 00	"	Spontaneous comb.	
" 10	" a.m.	19	Gorham "	P. Scollan,				"	Incendiary,	
" 12	11.45 a.m.	37	Watson "	"				"	Chimney,	
" 12	8. p.m.	Still,	Central "	A. C. Wheelock,	50 00			"	Ker. lamp explosi'n	Hose 6 responded.
" 14	2.10 a.m.	Still,	Union "	A. C. Wheelock,				Batting Mill,	Incendiary.	
" 14	8.05 p.m.	51	Gorham "	Josiah Butler,				Dwelling,	Careless use matches	Hose 3, H. & L. 1 and
" 18	9. a.m.	Still,	City Hall Ave.,	C. Hovey,				"	Defective chimney,	[2 responded.
" 18	3. p.m.	Teleph.	Middle street,	Mrs. McCarty,	27 00	1,600 60	27 00	"	Overheating "	Hose 8 responded.
June 1,	3.45 a.m.	Still,	suffolk street,	"				Carriage Shop,	Ker. lamp explosi'n	
" 3	9. p.m.	Still,	Church "	"				Dwelling,	"	
" 5	8.55 p.m.	14	Mammoth "	"				"	Spks. chim. set roof	
" 9	6.10 p.m.	Teleph.	Middlesex "	Dr. Holt,				Dwelling,	Rekindled,	
" 9	6.30 p.m.	Still,	Middlesex "	Dr. Holt,				"	Call from Lawrence	
" 24	4. a.m.	72	Middlesex "	"				Dwelling,	Chimney,	
July 2,	4.55 p.m.	16	Chapel "	Appleton Bank,				Dwelling,	Sm k'g ham in bbl.,	
" 11	5.40 p.m.	Teleph.	Dutton "	Il. Emery,				Eating Saloon,	Chimney,	
" 13	6.40 a.m.	Teleph.	Market "	John Lynch,				Dwelling,	Smoke from Chim.,	
" 13	12.30 m.	Still,	Suffolk "	Tremont & Suffolk,				Mill,	Unknown,	
" 17	10 a.m.	18	Chelmsford st.,	B. B. Floyd,	190 00	1,000 00	190 00	Barn,	Incendiary,	Horse burnt.
" 18	10.10 p.m.	61	Billerica "	Peter Gray,				Dwelling,	Unknown,	
" 19	4.25 p.m.	5	Worthen "	Machine Shop Co.,	1,000 00			Dwelling,	Unknown,	
" 23	2.30 a.m.	Teleph.	Cross "	"				"	Brush,	
" 24	5.30 p.m.	Teleph.	Pawtucketville,	E. D. Thomas,				Harden'g Steel,	From furnace,	
" 24	7.16 p.m.	5	Rock street,	D. Jovejoy & Son,				Tanner,	Oily Waste,	Hose 4 responded.
" 25	"	Still,	Howe "	W. H. White,				"	"	
" 28	6.30 p.m.	"	"	"				"	"	

FIRES AND ALARMS FROM APRIL 1, TO MARCH 31, 1883.

CHIEF ENGINEER FIRE DEPARTMENT.

33

Date.	Time.	Signal.	Location.	Owner or Oc'upant.	Damage.	Ins'ance.	Ins. Paid.	Occupied as	Cause of Fire.	Remarks.
Aug. 5,	2.45 a.m.	46	Bridge street,	City of Lowell,	\$15,000 00			Bridge.	Unknown.	
" 13,	1.50 p.m.	Teleph.	Fourth Ave.,	H. Emery,					Brush.	
" 18,	3.30 p.m.	Teleph.	Powell street,							
" 27,	3. p.m.	Teleph.	Hanover "						Waste Paper.	
" 30,	7.55 a.m.	51	Thornlike street,	R. Simpson,					Clothes over stove.	
Sept. 2,	9.45 p.m.	Teleph.	Merrimack "	Hosford Heirs,					Smoke fr. new oven	
Oct. 11,	3.55 a.m.	46	Coburn "	M. Fox,					Incendiary.	
" 13,	8.10 p.m.	Still,	Tyler "	H. D. Weston,					Smoke fr. chimney.	Protective Co. resp.
Nov. 6,	2.40 p.m.	19	Chapel "	E. D. Sargent,					Tar Kettle set Roof	
" 10,	4.15 a.m.	31	Davidson "	J. Moran,					Incendiary.	
" 20,	3.30 a.m.	46	Dracut,	M. Fox,	50 00			Woodshed,		
" 21,	11.45 a.m.	Still,	Livermore street	E. S. Hosmer,				Dwelling,		
" 22,	9. a.m.	Teleph.	Market "					"		
DEC. 3, '82	4. p.m.	Teleph.	Adams "	Dr. B. F. Simpson,				"	Overheating f'm'ce	Hose 4 responded.
" 5,	1.30 p.m.	37	Whipple "	P. Malony,				"	Stove set woodbox.	
" 12,	10.40 p.m.	Teleph.	Merrimack "	Heirs F.A. Hildreth,				"	Bed.	
" 13,	2. p.m.	38	Lundberg "	E. A. Thissell,	500 00	1,500 00	500 00	"	Steam fr. Mortar.	
" 13,	11.45 p.m.	52	Merrimack "	O. Lord,				"	Stove set Floor.	
" 15,	5.20 p.m.	51	Chambers "	O. Duckworth,	21,457 37	65,800 00	21,457 37	"	Bed. [lantern.	
" 16,	4.50 a.m.	51	Chambers "	"				"	Gas leak set fire by	
" 18,	7.10 p.m.	Teleph.	Fenwick "	Mrs. Sullivan,				"	Rekindled.	
JAN. 2, '83	10.30 p.m.	45	Branch "	J. Smith,	1,600 00	3,500 00	1,600 00	"	Chimney.	
" 2,	10.50 p.m.	45	"	I. K. Goodale,	400 00	1,200 00	400 00	"	Unknown.	
" 2,	10.30 p.m.	45	"	L. Farwell,	700 00	2,500 00	700 00	"	"	
" 2,	10.30 p.m.	45	"	O. Shephard,	100 00	300 00	100 00	"	" [set b'ld'g.	
" 13,	9.30 a.m.	25	Moody "	John Ayer,				Dwelling,	Thawing wat. pipe	
" 17,	4.50 p.m.	27	Pawtucketville,					"	Test Alarm.	
" 19,	8 a.m.	Teleph.	Summer street,	Sarah Ryan,				"	Clothes in closet.	
Feb. 6,	10.20 a.m.	Teleph.	Westford "	E. A. Bigelow,	80 00	7,000 00	80 00	"	Unknown. [match.	
" 10,	10. p.m.	Teleph.	Central "	H. B. Shattuck,				Ins. Office,	Waste paper set by	
" 10,	11.50 p.m.	19	Gorham "					Skating Rink.	Oil lamp explosion.	
" 17,	5.15 a.m.	32	West Ninth st.	P. Buckman,		400 00	285 00	Dwelling,	Incendiary.	
" 20,	5.45 p.m.	46	River street,	J. M. G. Parker,				"	Bed.	
" 26,	10.45 p.m.	21	Merrimack street	J. Robbins,	1,376 00	8,000 00	1,376 00	Stores & Offices	Unknown.	
" 26,	10.45 a.m.	21	"	G. Thatchler,	252 00	300 00	252 00	Clock Repairer	"	
" 26,	10.45 a.m.	21	"	J. W. Cassidy,	1,900 00	6,000 00	1,900 00	Dry G'ds Store,	"	
" 26,	10.45 a.m.	21	"	C. H. Bixby & Co.,	4,060 00	7,000 00	4,060 00	"	"	
" 26,	10.45 a.m.	21	"	N. C. Sanborn,	44 75	2,000 00	44 75	Photographer,	"	
" 26,	10.45 a.m.	21	"	Will Lamson,	500 00	5,325 00	500 00	Fancy Gd's Str.	"	

FIRES AND ALARMS FROM APRIL 1, 1882, TO MARCH 31, 1883.

Date.	Time.	Signal.	Location.	Owner or Occupant.	Damage.	Ins'ance.	Ins. Paid.	Occupied As	Cause of Fire.	Remarks.
FEB. 26, '83	10.45 p.m.	21	Merri'ck street,	Dr. Heald,						
Mar. 5,	3.50 a.m.	Teleph.	Market "	Hadley,						
" 9,	10.30 a.m.	31	Fayette "	T. Carolin,						
" 12,	8.13 p.m.	46	River "	Mrs. Sherman,						
" 13,	7.50 p.m.	Teleph.	Dummer "	W. E. Livingston.						
" 15,	7.45 a.m.	72	Thorndike "							
" 26,	7.35 p.m.	31	Fayette "							
" 26,	9.45 p.m.	31	Fayette "							
LOSS, \$53,583 12.					INSURANCE, \$124,725 00.					
					INSURANCE PAID, \$37,033 12.					
					LOSS ABOVE INSURANCE, \$16,550 00.					

FIRE ALARM TELEGRAPH.

Location, Engine House, Middle Street.

GEO. B. WHITNEY, OPERATOR.

SIX CIRCUIT AUTOMATIC REPEATER WITH BATTERY OF
279 CUPS.

Miles of Line Wire.....	41
Signal Boxes.....	52
Engineers' Gongs.....	7
Engine House Gongs.....	10
Indicators.....	10
Strikers.....	8

The strikers are located as follows: Police Station, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Church, No. 7 Hose House.

The standard time is struck at One o'clock P. M. each day by Harry Raynes.

One stroke dismisses, two strokes call out the entire Department, two strokes repeated at $\frac{1}{4}$ before 8 A. M. and $\frac{1}{4}$ past 1 P. M. denote no sessions of schools.

MAGNETOE BELL TELEPHONE CIRCUIT.

(Changed from Battery in January).

15 Complete Stations.

12 Extension Bells for sleeping rooms.

10 Miles Wire.

GENERAL RUNNING ORDERS.

The Companies will respond to alarms of fire given from boxes as indicated in the annexed table :

The Chief, First Assistant and Protective Company will answer alarms from all boxes.

When an alarm of fire is given, all Companies not responding will remain at their houses thirty minutes, unless dismissed by telegraph signals, viz. : One blow on the engine house gongs and alarm bells will be understood as proclaiming the fire extinguished, and the companies not attending be dismissed ; two strokes will constitute a general alarm, and all companies will report immediately, after waiting thirty seconds, to be sure that it is not an alarm from another box. After a first alarm is given, and before the recall signal is struck, should an alarm be given from another box, all unemployed Companies will respond after waiting twenty seconds.

SIGNAL BOXES, COMPANIES AND ENGINEERS RESPONDING
TO ALARMS.

3—Broadway and Mt. Vernon Sts.	1, 2, 3, 7.	2.	1.	N., W., T.
4—Dutton St., opp. Parker & Cheney's.	1, 2, 3, 6, 7.	2.	1, 2.	N., W., T.
5—Fletcher and Cushing Sts.	1, 2, 3, 4, 7.	2.	1, 2.	N., W., T.
6—Lewis and Little Sts.	3, 4, 5, 7.		1.	N., W., T.
7—Market and Dutton St.	3, 4, 5, 7.		1, 2.	N., W., T.
8—Westford and School Sts.	1, 2, 7.	2.	2.	T.
9—Common and Salem Sts.	2, 3, 4, 7.		1.	W., T.
12—Market St. Police station.	3, 4, 5, 6, 7.		1, 2.	N., W., T.
13—Merrimack and Prescott Sts.	3, 4, 5, 6, 7.		1, 2.	N., W., T.
14—Andover and Fayette Sts., Belvidere.	3, 4, 5, 6.		2.	N., W.
15—Bleachery St. On Bleachery stable.	1, 4, 3, 6.	2.	2.	N.
16—Hosford square, Chapel Hill.	1, 4, 5, 6.		1.	N., W.
17—Walker and Middlesex Sts.	1, 2, 3, 7.	2.	2.	T.
18—Hale and Lincoln Sts.	1, 2, 3, 7.	2.	2.	N.
19—Gorham and Union Sts.	1, 3, 5, 6.		1.	N., W., T.
21—Kirk and Merrimack Sts.	3, 4, 5, 6, 7.		1, 2.	N., W., T.
23—River and Coburn Sts., Centralville.	3, 4, 5.		2.	N., W.
24—South and Middlesex Sts.	1, 2, 5, 6.		1.	N., W., T.
25—Merrimack St. Tremont House.	3, 4, 5, 7.		1.	N., W., T.
26—Fletcher and Pawtucket Sts.	2, 3, 4, 7.	2.	1.	W., T.
27—Pawtucketville.	2, 3, 7, 8.	2.	2.	W., T.
28—Hall and Aiken Sts.	2, 4, 5, 7.	2, 3.	1.	N., W., T.
29—Tenth and Myrtle Sts., Centralville.	4, 5, 6.	3.	2.	N., W.
31—High and E. Mer'k Sts., Belvidere.	3, 4, 5, 6.		1.	N., W.
32—Tenth and Bridge Sts., Centralville.	4, 5, 6.		2.	N., W.
33—Walker St. and Broadway.	2, 3, 4, 7.	2.	1.	T.
34—Lincoln St. On Tannery, Ayer's City.	1, 2, 3, 6.	2.	2.	N.
35—Lawrence and Charles Sts.	1, 4, 5, 6.		1.	N., W.
36—City Farm. On pole.	1, 2, 6, 7.	2.	2.	N.
37—Whipple and Kinsman Sts.	1, 3, 4, 6.	2.	2.	N., W.
38—Fair Ground: On building.	1, 3, 4, 6.	2.	2.	N.
39—Fletcher St. and Broadway.	1, 2, 3, 7.	2.	1.	N., W., T.
41—Nesmith and Wyman Sts., Belvidere.	1, 4, 5, 6.		2.	N.
42—Middlesex St. Old Engine-house.	1, 2, 3, 4, 7.	2.	1, 2.	N., W., T.
43—Highland St. Edson Schoolhouse.	1, 2, 5, 6.	2.	2.	N., T.
45—Branch St. Engine-house.	1, 2, 6, 7.		2.	W., T.
46—Central bridge, Centralville.	3, 4, 5, 6.		1.	N., W.
47—Andover St. Near B. F. Butler's driveway.	1, 4, 5, 6.		2.	N.
48—Dover and Grove Sts.	1, 2, 6, 7.	2.	2.	T.
51—Thorndike and Gorham Sts.	1, 3, 4, 6.	2.	1.	N., W., T.
52—Moody and Austin Sts.	2, 4, 5, 7.	2.	1.	W., T.
53—Central St. Boston & Maine depot.	2, 3, 4, 5, 6.	2.	1, 2.	N., W., T.
54—School St. Near Gas Works.	2, 3, 4, 7.	1, 2.	1.	W., T.
56—Middle St. Engine-house.	3, 4, 5, 6, 7.		1.	N., W., T.
57—Warren, opp. George St.	2, 3, 4, 5, 6.	2.	1, 2.	N., W., T.
61—Lawrence St. Above Stott's mills.	2, 3, 4, 6.	1, 2.	1.	N., W.
62—School and Bowers Sts.	2, 3, 7.	2.	2.	W., T.
63—Hale and Howard Sts.	1, 2, 3, 6.	2.	2.	N., T.
64—Third and Myrtle Sts., Centralville.	4, 5, 6.		2.	W.
71—Middlesex Village.	1, 2, 3.		2.	T.
72—Middlesex St., opp. Huntoon's stable.	1, 2, 3, 6, 7.	2.	1, 2.	N., W., T.
81—Wilder and Pine Sts.	1, 2, 6, 7.	2.	2.	T.

INSTRUCTIONS TO KEY-HOLDERS.

Alarms are to be given from the box nearest to the location of the fire.

Upon the discovery or positive information of a fire, you will unlock the box, pull down the slide or hook *once only*, and let go. If you hear no sound from the bell in the box, pull again. If you fail a second time, go to the next nearest box and do the same. Also, be particular to remain at the box until the arrival of an Engineer, who will release the key.

Each box contains a small bell, which, if heard before you pull the hook, indicates that the alarm has been previously given from another box. In such cases, *do not pull the hook* until you are sure the alarm has been completed.

Never signal for a fire seen at a distance; never touch the hook except to give an alarm of fire. Give an alarm from no cause other than an actual fire.

Second alarms for the same fire will be given only by one of the Engineers.

Never let the key go out of your possession unless called for by the Chief Engineer. If you change your residence or place of business where the key is kept, return the key to the same officer.

Keys to the boxes are in possession of responsible persons in the vicinity of the signal boxes; also in the hands of the police.

Citizens are requested to inform themselves where the keys to the signal boxes are kept.

COMPANIES RESPONDING TO TELEPHONE ALARMS.

District No. 1.—South side of Pawtucket Canal and west side of Boston and Lowell R. R. Nos. 1 and 2.

District No. 2.—East side of Boston and Lower R. R. to and including Hale, South Highland, Walnut, Whipple and Watson streets, to Concord River. Nos. 1 and 6.

District No. 3.—East side of Boston and Lowell R. R., Appleton, Middlesex and Jackson, to and including South street. Nos. 2 and 6.

District No. 4.—East side of Boston and Lowell R. R., from but not including Appleton street, to but not including Hale, South Highland, Walnut, Whipple and Watson streets, to Concord River, and south side of Pawtucket Canal, east side of but not including South, to Appleton street. Nos. 4 and 6.

District No. 5.—Belvidere. Nos. 4 and 6.

District No. 6.—Centralville. Nos. 3 and 5.

District No. 7.—West of Concord River to Pawtucket Canal, east of Boston and Lowell R. R. to Merrimack River. Nos. 3 and 5.

District No. 8.—West of Boston and Lowell R. R. and north of Pawtucket Canal, including Pawtucketville. Nos. 3 and 7.

Hook and Ladder No. 1 will respond in the District bounded as follows: West of Concord River to and including Taylor, Wamesit, Elm, Highland, Thorndike and Fletcher streets, to Merrimack River, to Concord River.

Hook and Ladder No. 2 will respond to all the rest.

The Protective Company will respond to all alarms.

LOCATION OF KEYS TO FIRE ALARM BOXES.

Box 3.—Harris Machine Shop, Lowell Hosiery, A. Batchelder, corner Cross and Mt. Vernon streets; M. Huntley's store, corner Mt. Vernon and Broadway; Otis Allen & Son's Mill.

Box 4.—Engine Room, Wamesit Mills; Cole & Nichols' Foundry; Howes & Burnham, lumber dealers.

Box 5.—Engine Room, Brook's Mill; C. P. Stanton's variety store, Liberty Square; D. G. Harrington, 51 Fletcher street; D. Lovejoy & Son, corner Fletcher and Cushing streets; G. W. Fifield's Machine Shop.

Box 6.—Office of Locks and Canals, J. S. Adams, 42 Broadway; D. Murphy, 49 Suffolk street.

Box 7.—J. Plunkett's drug store, J. Gates & Sons, Hadley's stable, Lowell Card Company.

Box 8.—J. G. Merchant, 78 Westford st.; D. Whithed, Jr., corner Branch and School streets; W. S. Gordon, corner Westford and School streets.

Box 9.—P. Quinn, grocery; J. Marren, 31 Clark street; James Carmichael, 12 Salem street.

Box 12.—Police Station.

Box 13.—M. O. Carter's drug store; stable on Prescott street; C. R. Kimball's drug store; C. T. Chamberlin, undertaker; Whithed & Co., Coal Office.

Box 14.—C. Hall, grocer, Andover street; A. Billingsley, variety store; W. A. Ingham, grocer, corner Fayette and Andover streets; L. Richards, Andover street; Warren Clifford, 102 High street.

Box 15.—Bleachery Counting Room ; Moody Prescott, 117 Moore street ; Walsh's mill.

Box 16.—L. C. Manchester, 299 Central street ; T. E. Stratton, 18 Ames street ; J. Tilton, 344 Central street ; Walker's mill, Lawrence street ; E. Hamblet's drug store.

Box 17.—J. F. Manahan, 84 Branch street ; E. J. Noyes, 491 Middlesex street ; C. D. Starbird, 92 Branch street ; Pevey's mill ; S. H. Weaver, corner Middlesex and Walker streets.

Box 18.—Mrs. J. P. Dudley, 7 Lincoln street ; C. S. Hadley, 37 Lincoln street ; Gates' tannery ; B. Edwards, 148 Hale street ; W. H. Bagshaw, 147 Hale street.

Box 19.—M. Corbett, 65 Gorham street ; T. Gorman, grocer, 107 Gorham street ; H. Morris, 71 Union street ; A. Q. Phelan, drug store.

Box 21.—Carleton & Hovey's drug store ; Wood Yard Office, Kirk street.

Box 23.—Charles Callahan, River street ; Peter Fox, 90 River street ; F. J. Joyce, grocer.

Box 24.—S. W. Churchill, grocery ; George Reed, 8 Appleton Corporation ; G. F. Wehr, 11 Appleton Corporation ; Martin Moran, 27 South street.

Box 25.—Tremont Hotel.

Box 26.—J. A. Knowles, Jr., corner Fletcher and Pawtucket streets ; S. Bartlett, 273 Fletcher street ; J. Johnson, 61 Pawtucket street.

Box 27.—A. C. Varnum, 9 Varnum avenue ; C. E. Luscomb, Second avenue ; O. R. Blood ; both grocery stores.

Box 28.—Harris' Harness Mill ; Lawrence Counting Room ; Tremont Counting Room ; Watchman on Lawrence Corporation ; J. G. Hills, 87 Cabot street ; two French Bakeries ; C. D. Laroche, drug store, 72 Hall street.

Box 29.—J. M. G. Parker, 41 Tenth street; C. I. W. Maynard, 31 Tenth street; M. Green, 24 Tenth street.

Box 31.—Horse Railroad Stables; Dr. Fox, corner High and East Merrimaek streets; Niven & Thompson, provisions.

Box 32.—Wood's & Sherwood, wire works; F. G. Morse, 10 Webster avenue; D. H. Varnum, corner Bridge and Tenth streets; M. C. Mallory, 182 Bridge street; Water Works.

Box 33.—C. Kemp, corner Broadway and Walker streets; R. Goulding, 98 Walker street; L. Stevens, 111 Walker street; J. G. Peabody, corner Wilder street and Broadway; Charles Thompson, Walker street.

Box 34.—C. Webster, 137 Lincoln street; Arey & Maddock, tannery; Coburn Shuttle Company, Ayer's City.

Box 35.—Stile's Grocery, Central street; D. Benson, variety store, 70 Lawrence street; L. W. Huntington, 48 Lawrence street.

Box 36.—City Farm.

Box 37.—P. Lyneh, 44 Whipple street; B. Gray, 45 Whipple street; Kerney & O'Donnell, provisions, 63 Whipple street.

Box 38.—Fair Ground Building; Parker's Coal Office; Mollahan Brothers' Coal Office; J. G. Marshall, 451 Gorham street; R. Stevens, 445 Gorham street.

Box 39.—City Stables; J. J. Donovan, 106 Fletcher street; H. L. Haven's drug store; Arthur Staples, 39 Franklin street.

Box 41.—O. H. Moulton, 95 Nesmith street; J. Howe, 48 Oak street; J. C. Abbott, 18 Fairmount street.

Box 42.—Davis & Sargent's Mill; H. C. Brothers' drug store; J. C. Bennett, Howard House; J. G. Baron, 352 Middlesex street.

Box 43.—G. E. Mitchell's Plaster Works; Horace J. Adams, 26 Highland street; B. N. Webber, 14 Highland street.

Box 45. Steamer House; C. E. Carter's drug store; J. Baron,

344 Middlesex street ; I. K. Goodale, grocer, 17 Branch street ; J. S. Bickford, 33 Branch street.

Box 46.—J. T. Donahue ; B. W. Fullerton, drug store ; Broek's drug store, Centralville.

Box 47.—J. S. Ludlam, J. B. Franeis, F. B. Shedd, H. H. Wilder, H. B. Coburn, Mrs. C. B. Richmond, all on Andover street.

Box 48.—W. T. Willis, 82 Dover street ; G. E. Evans, 87 Wilder street ; W. H. Smith, 58 Dover street ; D. C. Fields, 49 Grove street ; F. L. Morrill, corner Grove and Dover streets ; A. C. Russell, 90 Wilder street ; J. G. Buttrick, 100 Wilder street.

Box 51.—Suspender Mill, Ripley's Mill, J. Butler's Mill, Field's drug store.

Box 52.—E. B. Pierce, corner Austin and Merrimaek streets ; H. B. Wheeler, 2 Austin street ; Albert Wheeler, 380 Merrimaek street.

Box 53.—Crowell & Harrison's drug store ; F. H. Butler's drug store ; Nichols & Fletcher's grocery.

Box 54.—Gas Works, Flagman at Railroad, J. Clark's Storehouse, Staples' Sewer Pipe Office.

Box 56.—Langley & Smith, Junk Shop, Middle street ; Steamer 3's House, Middle street.

Box 57.—O. H. Perry, Agent Middlesex Mills ; two watchmen of Middlesex Mills ; O. Saunders, Superintendent Middlesex Mills ; C. T. Shanahan, Flagman, B. & M. R. R.

Box 61.—Greenwood Brother's grocery ; Wamesit Power Company ; American Bolt Company ; Sterling Mills ; Stott Mills ; Cartridge Company ; Chase Mills ; Faulkner's Mills ; M. J. Keyes, 5 Agawam street.

Box 62.—J. S. Perkins, at Horse Railroad Station ; F. Taylor, 174 School street ; Mrs. C. H. Barker, 166 School street ; D. Goodhue, 163 School street.

Box 63.—W. R. Batchelder's Stable; S. J. Gibby, 82 Hale street; S. Greenwood, 53 Hale street.

Box 64.—G. A. Gerry, 41 Third street; N. A. Randlett, 45 Third street.

Box 71.—Arlin Hotel; J. Damon, Postmaster; H. K. Ferrin, 821 Middlesex street; Richardson Brothers' Ice House; M. E. Graves, 74 Baldwin street; G. Bowers; S. P. Hadley, 954 Middlesex street.

Box 72.—P. H. Britton; St. Charles Hotel; Huntoon's Stable; W. A. Ingham, Grocer; C. F. Blanchard, 230 Middlesex street.

Box 81.—I. K. Goodale, 53 Wilder street; C. Temple, 43 West Pine street; J. S. Eldridge, 4 Wilder street; C. W. Richardson, Stevens street; J. B. Stillings, 166 Liberty street.

In addition, the Board of Engineers, every Police Officer and a large number of citizens, are furnished with keys, to be carried in their pockets.

HYDRANTS BY STREETS.

LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.	LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.
A.....	1				Columbus Avenue...			1	
Adams.....		6	1	3	Common.....	4			
Agawam.....	4				Conant.....	2			
Abbott.....	1				Congress.....	3			
Aiken.....	1				Coolidge.....	1			
Ames.....	1				Coral.....	2			
Amory.....	2				Crosby.....	3			
Andover.....	7		1		Cross.....	6			
Andrews.....	1		1		Court.....			1	
Anne.....	3				Cushing.....			5	
Appleton.....	4				Davidson.....	2			
Arlington.....	1				Dodge.....	1			
Ash.....	1				Dover.....	3			
B.....			1		Dummer.....	1			
Barclay.....			1		Durant.....	2			
Bartlett.....	2				Dutton.....	7		4	
Beach.....	1		1		Edson.....			1	
Belmont.....			1		Eleventh.....	1		1	
Bleachery.....	8				Elm.....	3			
Blossom.....	1				East Merrimack.....	4		1	
Bowers.....	1		1		East Pine.....	2			
Branch.....	9				Fairview.....			1	
Bridge.....	9		2	3	Fayette.....	4			
Broadway.....	4	6			Fairmount.....	1		4	
Butterfield.....	2				Faulkner.....	1			
By.....			1		Fenwick.....	2			
C.....			1		Fifth.....	2			
Cabot.....	3	1	1		First.....	4			
Cady.....	1				Fletcher.....	7			
Cambridge.....	1				Ford.....	2			
Canal.....	2				Fourth.....	2			
Canton.....	1				Fourth Avenue.....			1	
Carpet Lane.....	1				Franklin.....	1			
Carter.....	2				Fremont.....			2	
Cedar.....	2				French.....				4
Central.....	13	4			Front.....			1	
Chapel.....	6				Fulton.....			3	
Charles.....	3				F. & L. R. Ft. Yard..			1	
Chelmsford.....	1		6		Gates.....	1			
Chestnut.....	2				George.....	1			
Church.....	5				Gorham.....	13		2	1
Clark.....	1				Grand.....	3		1	
Clay.....	2				Grove.....	2			
City Farm Yard.....			3		Green.....	1			
City Stable Yard.....			1		Hale.....	3			
City Hall Avenue.....		1	1		Hall.....	3			
Chambers.....					Hampshire.....	2			
Coburn.....	2				Harrison.....	1			
Colburn.....	1				Harrison Avenue....			1	

HYDRANTS BY STREETS.

LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.	LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.
High.....	5				Mill.....	1			
Highland.....	2				Main.....	1			
Hildreth.....	5				Nesmith.....	8			
Howard.....	6				Newhall.....	2			
Howe.....	2				Nineteenth.....			1	
Hurd.....	3				North.....	2			
Jackson.....	7				Oak.....	1			
James.....	1				Oliver.....	1			
Jewett.....			3		Paige.....	2			
John.....	1				Park.....	1			
Keene.....	1				Pawtucket.....	10			
Kidder.....	1				Pine Hill.....			1	
Kinsman.....	2				Pine.....	3			
Kirk.....	2				Pleasant.....	1			
Lane.....	2				Powell.....			1	
Lawrenee.....	8				Prescott.....	1			
Lee.....	1				Prince.....	2			
Lewis.....	2				Prospect.....	1			
Liberty.....	5				Phil.....			1	
Lincoln.....	8				Phillips.....			1	
Linden.....	3				Queen.....	1			
Little.....	1				Railroad.....	2			
Livingston.....	1				River.....	6		3	
London.....	3				Riverside.....			6	
Loring.....	2				Robbins.....			1	
Lyons.....	1				Robinson.....	1			
Madison.....	1				Rock.....	3			
Mammoth.....			9		Salem.....	4			
Mansur.....	1		1		School.....	9		1	
Market.....	7				Second.....	1			
Marshall.....	2				Second Avenue.....			1	
Mead.....	1				Seventh Avenue.....			1	
Merrimaek.....	15	1	1	1	Seventh.....	1			
Methuen.....	3				Shaw.....			1	
Middle.....	5	1			Shedd's Avenue.....		1		
Middlesex.....	16	5	9		Simpson.....	1			
Manchester.....			1		Sixth.....	4			
Merrimack Counting Room, opp.....	1				Smith.....	4		1	
Moody.....	6				South Highland.....	1			
Moore.....	6				South.....	3			
Mt. Hope.....			1		Stackpole.....	4		1	
Mt. Grove.....			2		Stevens.....	4		2	
Mt. Vernon.....	2				Suffolk.....	4			
Marginal.....			1		Summer.....	6			
Marshall Road.....			2		Tenth.....	3			
Meadowcroft.....			2		Third.....	6			
Mt. Washington.....	3				Twelfth.....			1	
Myrtle.....	3				Thirteenth.....	1			
					Thorndike.....	5			

HYDRANTS BY STREETS.

LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.	LOCATION.	NEW FLUSH.	OLD FLUSH.	NEW POST.	OLD POST.
Tilden.....	2				Water.....	3			
Tremont.....	3				Watson.....	1			
Tyler.....	3				Western Avenue.....	2		1	
Taylor.....	1				Westford.....	6		4	
Tucker.....			1		West Third.....			1	
Union.....	1				West Fourth.....	2			
Varney.....	3				West Fifth.....	1			
Varnum Avenue.....			6		West Sixth.....	4			
Vernon.....	2				West Union.....	1			
Walker.....	9				Whipple.....	1			
Walnut.....	2				Wilder.....	5		2	
Wamesit.....	2				William.....	2			
Wamesit Power Co....	1				Willie.....	2			
Wannalancit.....	2				Winter.....	1			
Warren.....	2				Worthen.....	6			
Washington.....			1		West.....			1	

Number of Flush Hydrants, 5 inch	-	-	544
“ “ “ “ 2 1-4 inch	-	-	26
“ “ Post Hydrants, 2 1-4 inch	-	-	12
“ “ “ “ new	-	-	127

 709

RESERVOIRS.

- 1 on Chestnut, corner of Willow Street.
- 1 on Myrtle, at head of Fifth Street.
- 1 on Fourth, near Read Street.
- 1 on Bridge, corner of Seventh Street.
- 1 on Tyler, corner of George Street.
- 1 on Union, corner of Chapel Street.
- 1 on Chapel, corner of Keene Street.
- 1 on Central, at Hosford Square.
- 1 on Westford, corner of Grand Street.
- 1 on Branch, corner of Queen Street.
- 1 on Middlesex, corner of Wilder Street.
- 1 on Forest Street.
- 1 on Salem, corner of Deatur Street.
- 1 on Cross, between Fletcher and Willie Streets.
- 1 on Varney, near Mt. Vernon Street.
- 2 openings in Canal on Moody Street.

TENTH
ANNUAL REPORT
OF THE
LOWELL WATER BOARD
TO THE CITY COUNCIL,

ACCOMPANIED BY THE REPORTS OF THE CITY ENGINEER AND OF THE
SUPERINTENDENT OF WATER WORKS, TO THE WATER BOARD.

JANUARY 9, 1883.



LOWELL, MASS.:
COURIER PRESS: MARDEN & ROWELL.
1883.

CITY OF LOWELL.

IN WATER BOARD, January 9, 1883.

Read and accepted, and ordered to be transmitted to the City Council.

Attest.

JAMES M. BATTLES, *Clerk*.

IN COMMON COUNCIL, January 9, 1883.

Read, and sent to the Board of Aldermen.

DAVID CHASE, *Clerk*.

IN BOARD OF ALDERMEN, January 9, 1883.

Received and read.

DAVID W. O'BRIEN, *City Clerk*.

WATER BOARD, 1883.

President ALBERT A. HAGGETT.

Term expires first Monday in May, 1883.

CHARLES C. HUTCHINSON.

Term expires first Monday in May, 1884.

Alderman GEORGE W. FIFIELD.

Councilman EDWARD B. PEIRCE. Councilman JOHN J. HOGAN.

Clerk JAMES M. BATTLES.

Regular meetings of the Water Board, Friday evenings, at 7 1-2 o'clock.

Superintendent of Works HORACE G. HOLDEN.

Foreman of Works DANIEL D. FRASER.

Engineer at Pumping Station JAMES P. ROBERTS.

Service Clerk LEONARD T. FARRIS.

Inspectors.

JOHN J. BANCROFT. ANDREW J. DEVOLL. THOS. G. GERRISH, JR.

Inspectors of Meters.

HENRY E. SPRAGUE. CHARLES H. HARVEY.

The Water office is open daily, from 9 A. M. to 12 M., and 2 to 5 P. M., and on Monday evenings, from 7 to 8 o'clock.

REPORT OF THE WATER BOARD.

OFFICE OF THE LOWELL WATER BOARD,
LOWELL, MASS., January 9, 1883.

To the City Council of the City of Lowell:

GENTLEMEN — The Lowell Water Board take pleasure in presenting this, the Tenth Annual Report of the Board, and in being able to congratulate our citizens and the City Council upon the continuance of the successful working of our water supply system, both as regards the unlimited supply of pure and wholesome water furnished, and the gratifying financial record of the works committed to our care.

For the kind co-operation of the City Council in granting the needed appropriations for the year, by which the calls for numerous extensions of pipe and other necessary expenditures have been met, we desire to extend our thanks, and would bespeak the same wise and hearty support in all matters which may be deemed necessary and proper for the continued prosperity of our successful system of water works, from the City Council of 1883.

The first meeting of the Board for the year 1882 was held on the evening of the 9th of January, the Board being then composed of the following members: Albert A. Haggett, President, and James W. Bennett,

from the citizens, Alderman Thomas R. Garity, Councilmen William N. Osgood and Frank Wood, elected from the City Council.

ORGANIZATION.

May 1st, in accordance with the requirements of the City Ordinance, the members of the Board, composed of all the before-mentioned persons (except James W. Bennett, whose term of office had just expired) and Charles C. Hutchinson, who had been elected by the City Council from the citizens, for the two years ensuing, met for their annual organization: Albert A. Haggett was re-elected President, and James M. Battles, Clerk of the Board.

During the year the calls for extensions of street-mains have been quite numerous, principally in new streets, and in the out-lying districts of the city, where, for the first time, new territory has been built upon, and much work has been performed in replacing old and small-sized pipe, which had become unequal to a proper supply of the streets where located, with larger-sized pipe, rendered necessary by the largely increased population of said streets. For a special description of the size, amount, and location of these extensions and changes, we refer to the detailed account presented in the Report of the Superintendent of the Works to the Water Board, accompanying this Report.

CONTRACTS.

January 28th a contract was made with R. D. Wood & Co., of Philadelphia, the lowest bidders, for 240 tons of cast-iron pipe and special castings, for use on extensions of the Works, at \$45 per ton of 2240 lbs., deliv-

ered on cars in this city. May 26th bids were received and opened for 800 tons of Powelton mine coal, to be delivered and stored within the coal house at the pumping station; and the contract for the same was awarded to the lowest bidders, Whithed & Co., of this city, at \$6.01 per ton of 2240 lbs.

HIGH SERVICE WORKS.

The works for the High Service Supply were fully completed June 1st, at which date William H. Ward, the contractor for the construction of the High Service Reservoir, completed his contract for said Reservoir, to the complete satisfaction of the City Engineer and the Board. We here desire to express our thanks to Mr. Ward for the faithfulness and energy which he displayed in the successful and workmanlike manner in which this important part of our High Service System was constructed by him, and for the gentlemanly and courteous manner which he exhibited in all his dealings with the Board in connection therewith.

January 9th, the City Engineer deeming it advisable that a bank wall be constructed on the westerly side of the Reservoir lot for the reception of the fence on that side of the lot, a contract was made with Mr. Ward for the construction of said wall at a cost of \$1,174.25, which contract was faithfully and satisfactorily completed.

May 12th proposals were issued for the construction of a suitable fence around the High Service Reservoir lot, and on May 19th bids for its construction were received from eight different parties, ranging from \$650, the highest, to \$520, the lowest, the latter sum being

from F. A. Parker, to whom the contract was awarded. Mr. Parker satisfactorily completed his contract, and the Reservoir lot is surrounded by a neat and substantial fence.

The amount appropriated for the construction of the High Service System was \$75,000—the *actual cost* of the same has been \$68,867.98, or \$6,132.02 less than the amount appropriated; a fact, in these days of liability to *exceed* appropriations, especially upon City work, worthy of record. We congratulate our citizens and the City Council upon the possession of a system of water supply for all sections of our municipality second to none within our knowledge, and trust that the same wise care and prudent management which have been bestowed upon it in the past, may continue so long as Lowell may require works which are such a blessing to our community.

The revenue derived from the High Service System during the past year is shown by the following table:—

BELVIDERE SECTION—containing 37 houses and 38 families, (2 new houses which are vacant and 1 house where the water is “not on” are included in the number of houses, but not included in the income)		\$530.50
CENTRALVILLE SECTION—containing 64 houses and 70 fami- lies (4 new houses which are vacant and 1 house where the water is “not on” are included in the num- ber of houses, but not included in the income)		673.50
Hydrant Services in both sections		500.00
Total Revenue for the year		<u>\$1,704.00</u>

INSPECTION OF FIXTURES.

Oct. 4th, the inspectors were ordered to make a careful examination and record of all water fixtures in premises of water takers, where metered water is not in use, for the purpose of ascertaining what fixtures, if any, had not been rendered to them at the annual taking in March. This inspection, which is not yet completed, has shown that large numbers of fixtures of all kinds have been added, and either through failure of the owner, or the plumber who put them, in to report the same to the inspectors at the annual visit in March, or to the Water Board office, when added, the City has failed to be the recipient of the water rates justly due from such additions. Much of the loss thus experienced we think might be obviated by the passage of an ordinance by the City Council, requiring all plumbers and pipe-fitters to be licensed by the Water Board, with such restrictions contained in said license as will secure proper returns to be made to the Water Board of the class of work proposed to be done by said plumbers or pipe-fitters in connection with the Water Works of the City. Such licenses to be granted to practical plumbers only, who have had good experience in their business. We think that much inconvenience and damage resulting from poor and inefficient workmanship could thus be avoided, and consequent waste of water be prevented. Many cities have such an ordinance, and the results therefrom are found to be valuable in preventing leaks and waste caused by bad workmanship, as well as in the certainty of having a record of all the fixtures in use in connection with the Works, before such fixtures have been placed within

the premises of the water-takers. We respectfully refer this subject to our successors upon the Water Board, and to the City Council of 1883.

STATISTICS.

The total amount of water pumped into the reservoir for the year was 959,931,730 U. S. gallons, against 874,996,660 U. S. gallons in the year 1881; and the daily average pumped was 2,629,950 gallons, against 2,521,604 gallons in 1881; an increase for the year of 84,935,070 gallons, and of 108,346 gallons in the daily average. The quantity of coal consumed during the year, for all purposes, excepting for High Service Supply, was $914\frac{7}{100}$ tons, against $817\frac{1}{2}$ tons in 1881. For the High Service Supply there were consumed $19\frac{1}{2}$ tons. There have been $525\frac{11}{100}$ gallons of water raised 166 feet high for each pound of coal consumed during the year. The total number of water takers is 13,000, against 12,600 in 1881, a gain for the year of 400. There are now laid $70\frac{58}{100}$ miles of street mains — the increase for the year having been $2\frac{49}{100}$ miles. The total net charges for water-rates for the year, after deducting all abatements, and the charges for service-pipes have been \$131,580, against \$122,867.22 for the year 1881 — an increase for the year of \$8,712.78.

The following table will show the charges for water, by months, from the commencement of the works to December 31, 1882, with all abatements, and total net charges:—

CHARGES FOR WATER BY MONTHS, FROM COMMENCEMENT TO DECEMBER 31, 1882.

MONTHS.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.
January . . . . .	. . . .	\$ 363 94	\$ 418 6	\$ 150 45	\$126 51	\$ 169 13	\$ 282 44	\$ 233 73	\$ 182 58	\$ 233 37
February . . . . .	. . . .	35 33	235 43	238 25	86 84	144 38	238 19	349 08	146 40	139 22
March	\$ 6,124 94	50,200 10	65,417 68	82,249 51	80,177 52	82,225 43	80,603 69	80,567 44	89,210 88	90,556 37
April	785 89	1,739 56	935 20	265 34	584 11	1,970 12	9,242 84	6,478 39	540 20	403 64
May	3,988 16	3,274 09	2,147 96	874 47	1,819 65	1,121 43	2,751 35	1,476 15	879 61	1,191 41
June	5,818 78	2,865 86	2,987 43	4,460 91	2,389 52	3,903 69	6,126 40	868 08	12,574 25	16,401 62
July	4,833 52	1,889 03	1,926 31	582 68	3,147 78	1,261 24	1,213 13	11,457 84	873 00	959 80
August	2,728 30	498 50	449 86	771 87	799 88	677 01	563 35	459 17	514 46	634 40
September	2,827 07	3,245 06	865 90	495 97	3,493 90	4,998 07	6,584 86	8,108 23	10,088 19	10,904 30
October	9,729 05	872 10	2,947 93	4,893 44	543 79	663 80	454 29	338 51	389 22	552 27
November	761 21	634 03	573 35	1,445 65	518 72	1,220 27	1,405 89	620 56	973 16	378 97
December	1,571 72	3,689 79	3,955 59	3,246 39	4,040 71	4,522 75	5,794 77	7,851 52	9,593 32	10,848 08
Totals	\$39,168 64	\$69,307 39	\$82,861 60	\$99,674 93	\$98,178 93	\$102,877 32	\$115,261 20	\$118,808 70	\$125,975 27	\$133,503 45
Less abatements to date . . . .	. . . .	1,872 83	640 06	8,185 88	2,502 65	4,343 13	9,590 05	1,702 13	3,766 88	1,923 45
Net amounts	\$39,168 64	\$67,434 56	\$82,221 54	\$91,489 05	\$95,676 28	\$98,534 19	\$105,671 15	\$117,106 57	\$122,208 39	\$131,580 00

FINANCIAL STATEMENT.

The total gross amount of bills sent to the City Treasurer for collection for this department, for the year ending December 31, 1882, is as follows:—

For water-rates	\$90,765 87	
metered water	42,737 58	
	<hr/>	
Total for the use of water		\$133,503 45
For service-pipe and laying	\$2,293 80	
meters sold	5,164 50	
sundry accounts	4,683 40	
	<hr/>	
Total for pipe, meters, &c.		\$12,141 70
	<hr/>	
Total charges for the year		\$145,645 15

The following statement exhibits the receipts and expenditures for the year, the net cost of the Water Works, including the interest on the Water Loan, and all expenses in excess of receipts for water rates; also the net cost and expenses of the Works by taxation:

Net cost of the Water Works to January 1, 1882, as per last Annual Report	\$2,289,801 01
Expended during the year for water-pipes and for lay- ing the same, and all other items of construction :	

MATERIALS FOR MAINS, SERVICES, &c. :—

Cast-iron pipe and specials	\$9,922 31	
Wrought-iron pipe and fittings	1,418 24	
Brass connections	1,530 63	
Lead, lead pipe, solder and tin	880 85	
Teaming pipe	355 20	
Pipe and service joints, hardware, powder, fuse, &c.	211 38	
Hydrants	1,299 39	
Hydrant covers	100 18	
Labor on same	10 00	
Gates for mains	850 32	
	<hr/>	
<i>Amounts carried forward</i>	<i>\$16,578 50</i>	<i>2,289,801 01</i>

Amounts brought forward . . . \$16,578 50 2,289,801 01

Gate boxes, &c. 115 50

Service boxes 62 49

\$16,756 49

Labor, pay-roll on acct. of—

Extensions \$3,208 84

Services 1,834 36

Piping 644 62

Teaming 563 75

\$6,251 57

Total ordinary construction . . . \$23,008 06

HIGH SERVICE SUPPLY:—

Cast-iron pipe \$900 00

Wrought-iron pipe and supplies . . . 10 59

Check valve 175 00

Gates and hydrants 166 10

W. H. Ward, balance on Reser-
voir contract . . . 5,300 37

“ for bank wall . . . 1,174 25

Fence, Reservoir lot, grading, &c. . . 643 90

Rubble for Reservoir 36 00

Worthington engine 1,800 00

Freight on same, bolts, &c. 36 70

\$10,242 91

Labor, pay-roll on acct. of—

Reservoir \$343 94

Engineering 202 49

Extensions 109 25

\$655 68

Total High Service construction . . . \$10,898 59

Total construction account . . . \$33,906 65

Amount brought forward \$2,289,801 01

MAINTENANCE.

EXPENDED FOR REPAIRS, CURRENT EXPENSES,

PUMPING, &c., viz. :—

Repairs.

Labor, pay-roll	\$2,325 53
Wrought-iron pipe and fittings . . .	1,210 11
Shed at pipe yard	111 89
Service covers and concrete	195 87
Engineer's house, windows and blinds . .	70 44
Repairing drains and gate chambers . .	121 67
Packing hydrants	74 50
Hardware	183 96
Lime, sand, cement and brick	115 60
Lumber	109 90
Supplies	107 07
Lead pipe and hose	89 00
Fuel	12 88
Total repairs	<u>\$4,728 42</u>

CURRENT EXPENSES. Pay-roll.

Salaries	\$3,075 00
Inspection	2,479 10
Foreman	927 00
Clerk hire	877 45
City Engineer	272 36
	<u>\$7,630 91</u>

Materials.

Printing, stationery, &c.	\$544 83
Horse keeping, &c.	283 44
Repairs of wagon, harnesses, &c.	377 65
Telephone	184 59
Flushing sewers	116 00
Supplies	118 41
Damages	68 00
Filter gallery, washing, &c.	53 22
	<u>\$1,746 14</u>

Total current expenses \$9,377 05

Amount carried forward \$2,289,081 01

Amount brought forward \$2,289,081 01

PUMPING ACCOUNT. Materials.

Coal	\$4,584 12
Labor, pay-roll	3,172 69
New boiler	925 46
Morris engine, plungers	219 65
Oil and tallow	136 50
Waste and packing	81 57
Gas	25 94
Hardware	15 99
Other supplies	45 15
	<hr/>
Total pumping account	<u>\$9,207 07</u>

RESERVOIR.

Labor, pay-roll	\$547 50
Supplies, teaming, &c.	47 35
	<hr/>
Total reservoir account	<u>\$594 85</u>

METER ACCOUNT.

Meters purchased	\$4,205 04
Labor, pay-roll	2,069 30
Repairs on meters	90 48
Teaming	251 64
Freight paid on meters	44 91
Supplies	50 51
	<hr/>
Total meter account	<u>\$2,506 84</u>

RECAPITULATION.

Total construction account	\$33,906 65
Repairs	\$4,728 42
Current expenses	9,377 05
Pumping account	9,207 07
Reservoir account	594 85
Meter account	2,506 84
	<hr/>
Total maintenance account	\$26,414 23
Meters bought	4,205 04
	<hr/>
<i>Amounts carried forward</i>	<u>\$64,525 92</u> 2,289,801 01

<i>Amounts brought forward</i>	\$64,525 92	2,289,801 01
Amount expended for the year, exclusive of interest	\$64,525 92	
Interest paid during the year	109,120 00	
Total expenditure for the year	\$173,645 92	
		<u>\$2,463,446 93</u>

CREDITS.

Amounts received by City Treasurer during the
year for water rates, service pipe and sun-
dries, as follows :

For account of 1877	\$ 3 00	
" 1880	1 93	
" 1881	12,018 32	
" 1882	128,307 87	
For fees	30 00	
sundries	36 84	
Total receipts for the year	140,397 96	
Net cost of Works, including interest on Water Loan to January 1, 1883	\$2,323,048 97	
Present debt of the city, by bonds and notes, on ac- count of the construction of the Water Works	\$1,875,000 00	
Total amount paid from City Treasury to January 1, 1883, by taxation, on account of Water Works, in excess of receipts from loans and of water rates	\$448,048 97	
Value of Water Works Sinking Funds, Jan. 1, 1883	356,459 52	
	<u>\$804,508 49</u>	
Net cost of Works, including interest on Water Loans, to January 1, 1883	\$2,323,048 97	
Whole amount paid by taxation, and by appropriation for the Sinking Funds, and the value of the accumu- lation of said Funds, January 1, 1883	804,508 49	
Debt of the city on account of Water Works, in excess of Water Works Sinking Funds, January 1, 1883	\$1,518,540 48	

The following table will show the gross cost of the Water Works, yearly, from the commencement of the same to Jan. 1, 1883 :

Expended in 1870	.	.	.	.	\$ 95,057.00
“ 1871	.	.	.	.	624,151 66
“ 1872	.	.	.	.	560,708 40
“ 1873	.	.	.	.	349,717 87
“ 1874	.	.	.	.	233,370 63
“ 1875	.	.	.	.	275,660 78
“ 1876	.	.	.	.	221,502 24
“ 1877	.	.	.	.	163,814 28
“ 1878	.	.	.	.	158,510 15
“ 1879	.	.	.	.	150,047 82
“ 1880	.	.	.	.	154,391 59
“ 1881	.	.	.	.	231,171 27
“ 1882	.	.	.	.	173,645 92
					<hr/>
Gross cost of Works to Jan. 1, 1883,					\$3,391,749 61
Receipts from various sources to Jan. 1, 1883					1,068,700 64
					<hr/>
Net cost of Works to Jan. 1, 1883	.				<u>\$2,323,048 97</u>

All portions of the works are in excellent condition, as will be seen by reference to the Annual Report of the Superintendent, accompanying this Report, and no changes or additions thereto will be required during the coming year, so far as we can foresee, other than the extensions of street-mains which may be called for in new territory not now built upon.

In closing this Report we are gratified to note the general efficiency of all, from the Superintendent of the Works to the lowest subordinate employed in this department, and we cheerfully recommend them all to our successors for their faithfulness in the discharge of the many duties which devolve upon them in the prosecution of the work allotted them to do. That the City may have the continued service of these faithful

employees in this important department of her affairs, is our earnest desire.

Appended herewith will be found the Reports of the City Engineer and Superintendent of the Works, in each of which will be found many interesting statistics, worthy of more than a passing glance. We also present the balance sheet of the City Treasurer, showing the charges and receipts for water-rates, service pipe and sundries, for the year ending Dec. 31, 1882.

Respectfully submitted.

A. A. HAGGETT,
CHAS. C. HUTCHINSON,
THOMAS R. GARITY,
WILLIAM N. OSGOOD,
FRANK WOOD,

Lowell Water Board.

ACCOUNTS OF THE TREASURER.

WATER RATES, SERVICE PIPE

DR. JOHN H. MCALVIN, *City Treasurer and Collector*

For amount of charges previously reported . . \$104,018 47

\$104,018 47

WATER RATES, &c.,

For amount of charges previously reported . . \$109,172 89

\$109,172 89

WATER RATES, &c.,

For amount of charges previously reported . . \$123,879 68

\$123,879 68

WATER RATES, &c.,

For amount of charges previously reported . . \$124,837 00

\$124,837 00

WATER RATES, &c.,

For amounts previously reported \$133,648 87

January, 1882, charges 808 55

February " " 762 32

\$135,219 74

AND SUNDRIES, 1877 ACCOUNT.

of Taxes of the City of Lowell.

CR.

By amount of collections previously reported . . .	\$101,231 41
Abatements made to December 31, 1882 . . .	2,787 06
	<u>\$104,018 47</u>

1878 ACCOUNT.

By amount of collections previously reported . . .	\$104,801 04
Abatements made to December 31, 1882 . . .	4,371 85
	<u>\$109,172 89</u>

1879 ACCOUNT.

By amount of collections previously reported . . .	\$114,114 27
Abatements made to December 31, 1882 . . .	9,765 41
	<u>\$123,879 68</u>

1880 ACCOUNT.

By amount of collections previously reported . . .	\$122,795 54
Collections made in 1882	4 93
Abatements made to December 31, 1882	1,970 24
Abatements withdrawn	6 00
Transferred to account of 1882	60 29
	<u>\$124,837 00</u>

1881 ACCOUNT.

By amount of collections previously reported . . .	\$119,143 63
Collections in January, 1882	5,383 52
“ in February, “	5,820 78
“ in March, “	723 90
“ in April, “	71 22
“ in May, “	15 90
Transferred to 1882 account	183 64
“ “ “	345 74
“ “ “	217 10
Abatements made up to December 31, 1882 . . .	3,314 31
	<u>\$135,219 74</u>

TENTH ANNUAL REPORT
OF THE
CITY ENGINEER TO THE WATER BOARD.

January 9, 1883.

REPORT OF THE ENGINEER.

OFFICE OF CITY ENGINEER,
LOWELL, MASS., Jan. 1, 1883.

To the Lowell Water Board:

GENTLEMEN—The following is the Tenth Annual Report of the work done by the pumping-engines at the Lowell Water Works Pumping-Station, calculated from the records kept by Mr. James P. Roberts, the Engineer in charge. In the calculations of the “duty” of the engines nothing has been allowed for friction of water in the pumps, etc.

No “duty” has been calculated for the high-service engine. During eight days in May the high-service engine pumped directly into the distribution pipes, and performed the work very easily. It takes the water from the Beacon-street reservoir, and has a back pressure of sixty pounds. It will be seen by the following table that it has only been necessary to pump fifty-four days, or five hundred and sixty-three hours, to supply the high-service districts, which proves the engine to have sufficient capacity for many years, unless more of the low-service territory is changed to the high-service. Since January 1st, 1873, the Morris engine has pumped twenty-three hundred and eighty-four days of ten hours each, and since February 1st, 1876, the Worthington engine (low-service) has pumped two hundred and seventy days.

Table showing work done with Morris Engine (Beam and Fly-Wheel) and Boilers, for each month during the year 1882.

MONTHS.	No. of days' pump-ing.	Av'e No. of hours' pumping per day.	No. of hours' pump-ing per month.	No. of strokes made per month.	Av'e No. of strokes made per minute.	Average head, including friction, in feet.	Quantity pumped per month, in U. S. gallons.	Average quantity pumped per day, in U. S. gallons.	No. gallons of water pumped in- to reservoir per lb. coal, for tot. coal consumed.	Duty in lbs. 1 foot high, with 100 lbs. coal, used in pumping only, no deduction for ashes or clinkers.	Duty on total coal consumed, no deduction for ashes or clinkers.
January . . .	30	11-52	355-55	247,983	11.61	166.56	79,354,560	2,645,152	554	92,565,272	76,922,264
February . . .	28	12-03	337-35	243,212	12.00	165.28	77,827,840	2,779,566	556	91,081,938	76,519,246
March	29	11-15	326-20	224,959	11.49	165.14	71,986,880	2,482,306	540	90,272,326	74,296,130
April	20	11-27	228-55	158,284	11.52	165.16	50,650,880	2,532,544	531	90,133,264	73,118,062
May	25	11-18	282-25	195,408	11.53	165.26	62,530,560	2,505,222	538	90,388,212	74,064,227
June	27	11-51	320-00	220,547	11.49	166.85	70,575,040	2,613,890	540	90,490,134	75,114,093
July	1	9-40	9-40	6,422	11.07	171.75	2,055,040	2,055,040	321	98,050,359	45,961,104
August . . .	24	11-41	280-40	193,235	11.47	165.81	61,835,200	2,576,466	572	88,144,857	79,015,740
September . .	30	11-46	353-10	249,025	11.75	165.56	79,688,000	2,656,267	557	91,649,291	76,797,982
October . . .	26	11-47	306-30	211,899	11.52	165.84	67,807,680	2,607,988	543	90,627,323	75,088,302
November . .	26	11-39	303-00	210,003	11.55	165.17	67,200,960	2,584,652	543	91,123,050	75,215,358
December . .	30	12-08	364-15	256,991	11.76	166.46	82,237,120	2,741,237	554	91,760,430	76,809,881
Totals and ave'gs	296	11-32	3,468-25	2,417,968	11.13	166.32	773,749,760	2,614,019	547	91,097,781	75,864,429

Table showing work done with Worthington Duplex Engine and Boilers at Pumping Station, for each month during the year 1882.

MONTHS.	No. of days' pump- ing.	Av'e No. of hours' pump- ing per day.	No. of hours' pump- ing per month.	No. of strokes made per month.	Av'e No. of strokes made per minute.	Average head, includ- ing friction, in feet.	Quantity pumped per month, in U. S. gallons.	Average quan- tity pumped per day, in U. S. gallons.	No. gallons of water raised in- to reservoir per lb. coal, for tot. coal consumed.	Duty in lbs. 1 foot high, with 100 lbs. coal, used in pumping only, no deduction for ashes or clinkers.	Duty on total coal consum- ed, no deduc- tion for ashes or clinkers.
January . . .	5	11-19	56-35	34,631	10.21	170.06	10,735,610	2,147,122	426	70,835,033	60,426,403
February . . .											
March											
April	5	11-36	58-00	39,243	11.28	160.70	12,165,330	2,433,066	434	68,629,775	58,125,974
May	3	11-33	34-40	23,612	11.35	160.87	7,319,720	2,439,907	438	68,625,743	58,763,349
June	6	11-07	66-40	41,720	10.43	167.29	12,933,200	2,155,533	449	76,017,723	62,565,588
July	31	13-33	420-15	309,111	12.56	163.32	95,824,410	3,091,110	453	71,651,624	61,629,950
August . . .	12	14-03	168-40	126,654	12.52	163.41	39,262,740	3,271,895	458	72,649,886	62,392,430
September . .											
October . . .	3	11-58	35-55	25,616	11.89	163.40	7,940,960	2,646,986	434	68,011,365	59,091,838
November . .											
December . .											
Totals and ave'gs	65	12-56	840-45	600,587	12.05	164.15	186,181,970	2,864,338	449	71,793,493	61,468,729

Table showing amount of coal, etc., used for Morris Engine at Pumping Station, for each month during the year 1882.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total coal consumed.
January . .	18,000	119,000	6,200	143,200
February . .	16,800	117,700	5,600	140,100
March . . .	17,400	109,750	6,200	133,350
April . . .	12,000	77,350	6,000	95,350
May	15,000	95,280	6,000	116,280
June	16,200	108,450	6,000	130,650
July	600	3,000	2,800	6,400
August . . .	8,400	96,940	2,800	108,140
September . .	17,400	119,970	5,800	143,170
October . . .	15,600	103,410	5,800	124,810
November . .	15,600	102,130	6,000	123,730
December . .	18,000	124,330	6,200	148,530
Totals . .	171,000	1,177,310	65,400	1,413,710

Table showing amount of coal, etc., used for the Worthington Duplex Engine, at Pumping Station, for each month during the year 1882.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total coal consumed.
January . .	2,700	21,480	1,000	25,180
February . .				
March . . .				
April . . .	3,000	23,740	1,290	28,030
May	1,800	14,300	600	16,700
June	3,900	23,720	1,200	28,820
July	24,000	182,030	5,600	211,630
August . . .	9,900	73,600	2,200	85,700
September . .				
October . . .	1,800	15,900	600	18,300
November . .				
December . .				
Totals . .	47,100	354,770	12,490	414,360

Table showing work done with Worthington High-Service Engine, at Pumping Station, 1882.

MONTHS.	No. of days' pumping.	Average No. of hours' pumping per day.	No. of hours' pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction, in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. of galls. of water pumped into reservoir per lb. of coal, for total coal consumed.	Coal in pounds used when pumping.
January . .	3	4-20	13-00	31,009	39.76	62.79	434,126	144,708	204	2,130
February . .	4	3-52	15-30	28,875	31.05	64.51	404,250	101,062	155	2,600
March . . .	3	3-40	11-00	19,850	30.07	64.51	277,900	92,633	154	1,800
April . . .	3	6-00	18-00	30,078	27.85	64.51	421,092	140,364	186	2,260
May . . .	10	19-54	199-00	73,744	6.17	70.53	1,032,416	57,356	211	4,892
June . . .	6	9-21	56-05	109,555	32.55	70.85	1,533,770	255,628	337	4,550
July . . .	5	8-43	41-05	87,787	35.61	77.19	1,229,018	245,803	341	3,600
August . .	7	10-21	72-25	154,577	35.57	73.73	2,164,078	270,509	316	6,850
September .	3	10-40	32-00	70,625	36.78	78.34	988,750	329,583	342	2,890
October . .	3	10-45	32-15	62,877	32.49	77.65	880,278	293,426	423	2,080
November .	3	10-06	30-20	64,866	35.64	76.79	908,124	302,708	324	2,800
December .	4	10-37	42-30	87,250	34.21	78.91	1,221,500	305,375	355	3,440
Tot's and av'gs	54	10-26	563-10	821,093	24.30	71.69	11,495,302	182,465	288	39,892

PUMPING-STATION, MORRIS ENGINE.

Running Expenses for the Year 1882.

Pay of engineer and firemen	\$2,568 00
4 $\frac{1969}{2000}$ tons coal (George's Creek), at \$6.384	28 91
423 $\frac{630}{2000}$ tons coal (Powelton), '81, at \$5.134	2,173 30
279 $\frac{29}{2000}$ tons coal (Powelton), at \$5.37	1,498 28
Wood	5 25
Gas for lighting works	21 73
55 gallons cylinder oil, at .75	41 25
49 gallons engine oil, at .45	22 05
1 gallon lard oil	1 20
674 lbs. tallow, at .09	60 66
34 $\frac{1}{4}$ lbs. soapstone packing, at .30	10 28
3 $\frac{1}{8}$ lbs. Asbestos packing, at .50	1 69
29 $\frac{1}{4}$ lbs. hemp packing	9 61
75 lbs. cotton waste, at .12 $\frac{1}{2}$	9 37
Repairs on engine and pump	230 15
Repairs on boilers	46 42
Sundries	30 25
Total	<u>\$6,758 40</u>

Cost of raising water into reservoir, per million gallons, \$8 73

Cost of raising water, per million gallons, one foot high, .05 $\frac{25}{100}$

WORTHINGTON ENGINE.

Running Expenses for the Year 1882.

Pay of engineer and firemen	\$567 00
190 $\frac{1379}{2000}$ tons coal (Powelton), '81, at \$5.134	978 97
7 $\frac{699}{2000}$ tons coal, at \$6.116	44 92
9 $\frac{399}{2000}$ tons coal (Powelton), at \$5.37	49 13
Wood	3 50
Gas for lighting works	4 80
28 gallons cylinder oil, at .75	21 00
10 lbs. soapstone packing, at .30	3 00
Amonnt carried forward	<u>\$1,672 32</u>

<i>Amount brought forward</i>	\$1,672 32
42 lbs. cotton waste, at .12 $\frac{1}{2}$	5 25
Repairs on engine	1 50
Repairs on boilers	10 89
Sundries	7 09
Total	<u>\$1.697 05</u>

Cost of raising water into reservoir, per million gallons,	\$9 12
Cost of raising water, per million gallons, one foot high,	.05 $\frac{5}{100}$

RESERVOIR, 1882.

The following table shows the average depth of water, the number of gallons, and the temperature of the water in the reservoir, and also the temperature of the air, for each month. The temperature of the water was taken at 6 A. M. and 6 P. M., and of the air at 6 A. M., 1 P. M., and 6 P. M.

MONTHS.	Depth in feet.	Quantity in U. S. gallons.	Temperature in degrees.	
			Of water.	Of air.
January	18.49	28,049,700	35.4	22.5
February	18.98	28,855,700	35.1	28.1
March	19.73	30,129,100	35.9	33.7
April	19.50	29,733,700	43.3	42.6
May	19.50	29,733,700	50.8	50.7
June	19.02	28,926,700	62.7	68.9
July	19.48	29,698,700	70.6	75.0
August	19.30	29,405,000	74.5	72.1
September	19.17	29,174,700	65.9	63.9
October	19.09	29,040,900	58.1	53.6
November	19.97	30,531,300	47.3	35.6
December	19.90	30,417,200	33.5	35.8

The following table shows the average monthly and daily consumption of water for the year 1882.

MONTHS.	Gallons per month.	Gallons per day.
January	89,390,420	2,883,560
February	78,667,110	2,809,540
March	70,162,040	2,263,290
April	64,919,680	2,163,990
May	68,310,840	2,203,580
June	82,226,510	2,774,220
July	99,139,730	3,220,440
August	99,840,930	3,220,680
September	79,547,630	2,651,590
October	75,467,480	2,434,430
November	66,354,070	2,211,800
December	81,528,020	2,629,940
Total and average . . .	957,254,460	2,622,615

HIGH-SERVICE SUPPLY.

During last winter a substantial bank wall was laid on portions of the west side of the reservoir lot on Mt. Pleasant street, and the north side adjoining the city gravel lot. April 10th work was resumed on the reservoir slope, paving and concreting at top of slope. May 22d the water was drawn from the reservoir, and the puddle on the bottom was finished, and all surplus material removed. About noon on the 25th of May, water was again let in, and the reservoir was allowed to fill. The sodding and grading of the outside slope were finished May 31st, thus completing Mr. Ward's

contract, which has been done in a faithful and satisfactory manner.

The grounds were subsequently graded and a fence built around the lot, under the direction of the Superintendent of the Water Works. Although some important changes were made in the location of the distributing main, it is gratifying to state that the high-service water supply has cost \$2,830 less than the original estimate, (\$71,700).

Respectfully submitted.

GEO. E. EVANS, *City Engineer.*

TENTH ANNUAL REPORT
OF THE
SUPERINTENDENT OF WATER WORKS,
TO THE
LOWELL WATER BOARD.

January 1, 1883.

REPORT OF THE SUPERINTENDENT.

SUPERINTENDENT'S OFFICE, CITY HALL,
LOWELL, January 1, 1883.

To the Lowell Water Board :

GENTLEMEN — In compliance with the city ordinance I respectfully submit herewith the tenth annual report of the Superintendent of the Lowell Water Works for the year ending December 31, 1882.

The Works and everything connected with them are in good condition, and during the past year there has been no freezing of mains or service-pipes, and but few leaks of any account.

The total amount of water pumped is 959,931,730 gallons. The amount of water sold by meter is 229,000,000 gallons. The average amount of water used per day for each inhabitant is 40.44 gallons. This includes all the water used for street drinking fountains, manufacturing purposes, extinguishing fires, &c.

FILTER-GALLERY AND CONDUIT.

At an examination of the filter-gallery and conduit, December 26th, the mason-work was all in good condition, and the amount of sediment in the conduit does not appear to have increased any in depth for the past four years. The spongy formation is gradually increasing on the bottom and sides of the gallery, and

although it is claimed that this never affects the quality of the water, as it is the same substance that is frequently found around the sides and bottoms of the purest springs, yet I think it would be advisable next season to build a gate-chamber at the upper end of the gallery, and have this chamber connected with the river by a pipe of suitable size, so that on opening the gate a strong current could be forced through the gallery, and by taking off the cover to the man-hole at Beaver Brook all the sediment could be washed out of the gallery and conduit.

PUMPING STATION.

At the pumping station the Morris engine, as usual, has done the larger part of the pumping. At the time that the pump-cylinder to the Morris engine was re-bored, July, 1881, the bucket was bushed with a brass ring shrunk on, and turned down to fit the cylinder. After running nearly a year this ring broke in two places. A new ring of very soft metal was then procured from the Atlantic Works, South Boston, and riveted to the bucket with 36 5-8-inch copper rivets. Since then it has run every day, and shows no sign yet of giving out. This constitutes all the repairs that have been needed on the engines or pumps. A corner of the engine-room has been partitioned off for an office 8 feet by 10 feet, and sheathed with black walnut and ash. Also, new windows and blinds have been put in the house occupied by the engineer. No repairs have been needed on the force-main. The fence around the reservoir grounds has been repaired and white-washed, and a portion of the land has been ploughed up and sowed with grass seed.

HIGH SERVICE.

During the year 114,953,020 gallons of water have been pumped into the high-service reservoir. Owing to a delay in getting material the reservoir was not completed until June 1st. Previous to that time about four feet of water was all that could be kept in the reservoir, but on completion water was pumped in to a depth of 16 feet, and from 12 feet to 16 feet of water has been kept in ever since. There has yet been no settling of the banks, and to all appearances the reservoir is now perfectly tight. After the reservoir was completed the grounds around it were graded, the stones and rocks all cleared off, about twelve inches of loam spread on, and the whole sowed with grass. A bank wall averaging four feet in height has been built on a portion of the east and north sides, also the whole length of the west side on Mt. Pleasant street, and the whole grounds have been surrounded by a picket fence $7\frac{1}{2}$ feet high. The high-service mains have been extended in Belvidere on Fairmount street, from the end of the pipe to the Tewksbury line; on Fairview street to D. C. Brown's house, and on Mansur street to the house of T. G. Tweed. In Centralville the high service mains have been extended on Beacon street from Tenth street to Eleventh street, and on Eleventh street to the house of Thomas Walsh. Connections have also been made on Vernon street through Sixth street to Fremont street, so that now the whole of Fremont street is on the high service. In Belvidere there are 37 houses and one fountain, and in Centralville there are 64 houses, one fountain and 3 stables now supplied with water from the high service system.

EXTENSIONS.

During the past year 13,154 feet of cast iron mains have been laid. The mains are now extended to the last houses within the city limits on Mammoth street, Riverside street, Bridge street, Andover street, Fairmount street, Lawrence street and Chelmsford street. The 8-inch cement-lined pipe running from Cushing street to Middlesex street, through Wamesit court, across Dutton street and Western avenue, thence through what was formerly the old city stable yard, under the bed of the Pawtucket canal, has been discontinued and cut off from the Cushing street and Middlesex street mains, and the hydrants connected to this line on Dutton street and in the old city stable yard have been taken out.

LEAKS.

There has been one leak in the high service force main on Tenth street, caused by a defective pipe, and one leak on the 20-inch line at the foot of Dutton street, at a joint.

Eight service pipes have broken off owing to the ground settling on account of the construction of sewers and house drains, and five service pipes have been found completely eaten through with rust.

HYDRANTS.

There have been 23 post hydrants set on extensions and one flush hydrant set on the Warren street line, 5 post hydrants on Cushing street, one old style post hydrant on Adams street, and one old style flush hy-

drant on Western avenue. The Pattee & Perkins hydrant on Chelmsford street near Gates's Tannery, and the Pattee & Perkins hydrant on Grand street near Middlesex street have been taken out and replaced by post hydrants made by the Boston Machine Co. The Chapman Valve Co.'s post hydrant on Merrimack street at the head of Central street has been taken out and replaced by a flush hydrant.

FIRE SERVICES.

Fire services of 4-inch pipe have been put into J. M. Pevey's mill on West Adams street, the Coburn Shuttle Co's mill on Lincoln street, C. I. Hood & Co.'s factory, off Thorndike street, Central Block on Central street and the new post office building on Merrimack street. A 4-inch pipe has been laid for the U. S. Bunting Co.'s mill off Crosby street, which connects on to 2 hydrants and a fire service which are sealed. A 6-inch pipe has also been laid from Hall street, at Coolidge street, into the yard of the Lawrence Manufacturing Co., and besides supplying water by meter is connected to 2 hydrants, which are sealed.

A 12-inch gate has been connected on to the 20-inch main on French street, and also a gate of the same size on Amory street for sprinklers in the Boott cotton house, and the 6-inch gate on the same line on French street has been taken out and replaced by a 12-inch gate for sprinklers for the Merrimack Manufacturing Co.'s cotton house.

At Otis Allen & Son's mill on Mt. Vernon street, two 2-inch pipes have been connected on to the 2-inch

service pipe which supplies the mill with metered water. One of these has a sprinkler gate attached and the other has a hose connection and gate outside of the mill, which is to be used only in case of fire.

ITEMS OF OTHER WORK DONE.

The two wooden gate boxes on the 30-inch line on Vernon street and on Stackpole street, also the gate box on the 16-inch line on Willow street have been taken out and brick chambers built and covered with granite stones with a man-hole in the centre.

The stone drinking trough at Pawtucket square has been replaced by a cup and tank fountain of our own manufacture.

The drinking fountains on Branch street and Westford street have been removed, and tank fountains have been set on Westford street near Stevens street, also at the westerly junction of Branch and Middlesex streets.

The 6-inch mains on Stackpole street, on Thirteenth street, and on South Canton street have been lowered to conform to a change of grade.

The buildings and fence at the pipe yard have been repaired and painted. The fence around the high service reservoir has had two coats of whitewash. Maple trees have been set out at the pumping station and at the filter gallery grounds.

In addition to the main pipe laid, there has been laid an amount of smaller sizes as per following:

SCHEDULE OF SMALL PIPE LAID.

STREETS.	LENGTH IN FEET.			
	$\frac{3}{4}$ inch.	1 inch.	$1\frac{1}{2}$ inch.	2 inch.
Appleton			120	
Bassett			123	
Chestnut			174	
Decatur Alley		126		
Dutton		67		
Gold		18	242	
Hampshire		56		
Harrison Ave.			130	
Howland Court			214	
Kimball's Court		16		
Kittredge's Court			298	
Lombard			247	
Linden Court		125		
North Franklin Court				123
Old Colony			88	
West			96	
West Third	31			
Worthen	34			
Totals	65	408	1732	123
Total amount 2,328 feet.				

METERS.

There are now 1079 meters in use, of which 193 were put in during the past year.

The repairs of meters have been as follows: 46 Worthington meters have been taken out and, after being tarred by the process described in the report of 1880, have been reset; 26 Worthington meters, 22 Desper meters and 15 Ball & Fitts meters have been taken out for repairs and then reset; 6 Worthingtons

and 3 Despers have been destroyed by freezing and 17 Fitts rotary meters have been worn out and replaced by other kinds. The monthly inspection of meters, which was commenced last year, has proved successful, by giving us more accurate registration, keeping the meters in better repair and guarding unnecessary waste and leaks.

The kinds and sizes of meters are shown by the following:

TABLE OF METERS IN USE DEC. 31, 1882.

KINDS.	$\frac{5}{8}$ in.	$\frac{3}{4}$ in.	1 in.	1½ in.	2 in.	3 in.	4 in.		Totals.
H. R. Worthington, N. Y.	329	27	49	25	16	3	2	. .	451
W. E. Desper & Co., Worcester,	343	91	48	1	. . . . .	. . . . .	. . . . .	. .	483
Ball & Fitts, Worcester .	44	21	1	1	. . . . .	. . . . .	. . . . .	. .	67
Fitts Rotary, Worcester, .	57	13	3	. . . . .	. . . . .	. . . . .	. . . . .	. .	73
Crown, N. Y.,	1	1	1	. . . . .	. . . . .	. . . . .	. . . . .	. .	3
Motor Register, . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2	2
Totals,	774	153	102	27	16	3	2	2	1079

SERVICES.

During the year the water has been shut off from the premises of 27 water-takers, for non-payment of water rates; and the number let on upon payment of the rates is 22.

The whole number of services remaining shut off for non-payment is 8.

There have been laid during the year 405 services, making the whole number laid to date 6283.

The amount of service pipe laid is as follows:

Laid during 1882, $\frac{3}{4}$ -inch	.	.	.	.	.	9,976 feet.
" " " 1-inch	.	.	.	.	.	2,495 "
" " " $1\frac{1}{2}$ -inch	.	.	.	.	.	1,097 "
" " " 2-inch	.	.	.	.	.	110 "
						<hr/>
Total laid during 1882	.	.	.	.	.	13,678 feet.
Add amount previously laid	.	.	.	.	.	233,345 "
						<hr/>
Total amount laid	.	.	.	.	.	247,023 "

WATER-TAKERS.

The whole number of water-takers (which includes each family, shop, store, office, and any other such place where city water is used) is estimated to be 13,000.

The number of abatements made during the year is 559, to wit:

ON ACCOUNT OF	1878	1879	1880	1881	1882	Total.
Water . .	\$9 00	\$18 00	\$49 43	\$658 83	\$1,923 45	\$2,658 71
Pipe, etc. .	. . .	. . .	. . .	. . .	57 16	57 16
Totals . .	\$9 00	\$18 00	\$49 43	\$658 83	\$1,980 61	\$2,715 87

Respectfully submitted,

HORACE G. HOLDEN,

Superintendent.

SCHEDULE No. 1.—Low Service.

WATER PIPES LAID IN 1882.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.			
		8 inch.	6 inch.	4 inch.	Total.
Agawam . . .	Extended southerly		67		67
Andrews . . .	Extended northerly		133		133
Beach	Extended northberly		158½		158½
Beach	Extended northerly		48		48
Belmont . . .	From Pine northerly		532		532
Bridge	Extended northerly		650½		650½
Brooks	Extended easterly			102	102
Bowers. . . .	Fletcher and Salem		283		283
Columbus Ave..	Extended easterly		135		135
Court	From Manchester southerly		269		269
Chambers . . .	Extended westerly		200		200
Chelmsford . .	Extended southerly	382			382
Edson	Westford and Princeton		375		375
East Merrimack	Extended easterly		525		525
First	Extended easterly		158		158
Fulton	From West soutberly		94½		94½
Grand	Extended southerly			60	60
Hastings . . .	Pine and Liberty		530		530
Harrison Ave. .	From Bridge westerly			226½	226½
Kinsman . . .	From Crosby southerly		235		235
L	Jewett and Coburn			197	197
Moore	From Bleachery westerly			278½	278½
Manchester . .	Extended westerly		297		297
Main	From Lincoln northerly		225		225
Methuen . . .	Extended easterly		161		161
Mason	Powell and School		308		308
Otis.	From Moore northberly			258	258
Otis	Extended northberly			168	168
* Amounts carried forward		382	5384½	1290	7056½

SCHEDULE NO. 1.—LOW SERVICE.—Concluded.

WATER PIPES LAID IN 1882.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.			
		8 inch.	6 inch.	4 inch.	Total.
	<i>Amounts brought forward</i>	382	5384½	1290	7056½
Plain	From Chelmsford easterly		303		303
Pine Hill . . .	From Chambers northeasterly		343		343
Shaw	Extended easterly		328		328
Sargent . . .	School and Phillips		188		188
Sagamore . . .	Shaw and Liberty		196		196
Stevens	Extended southerly toward Parker	441			441
Stevens	Extended northerly toward Middlesex	141			141
So. Whipple . .	From Griffin southerly		115½		115½
Stackpole . . .	From East Merrimack northerly		90		90
School	Extended southerly		212		212
Weare	From Grand westerly		101		101
Western Ave. .	Extended easterly (old cement line across canal discontinued).		320		320
West	From River northerly		159		159
West	Extended northerly		12		12
Hydrants . . .	. . . . .		214½		214½
Total in feet		964	7966½	1290	10220½

SCHEDULE No. 2.—High Service.

WATER PIPES LAID IN 1882.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.			
		8 inch.	6 inch.	4 inch.	Total.
Beacon	Tenth and Eleventh		429		429
Eleventh . . .	From Beacon westerly		296		296
Fairview . . .	From Fairmount easterly		354		354
Fremont	Extended southerly		206		206
Fairmount . . .	Extended southerly		1057		1057
Mansur	Extended easterly		177		177
Sixth	Vernon and Fremont		298		298
Vernon	Sixth and Richardson		65		65
Hydrants . . .	. . . . .		52		52
Total in feet					2934

SCHEDULE No. 3.—High and Low Service.

SUMMARY OF WATER PIPES LAID.

	8 inch.	6 inch.	4 inch.	Total.
Low Service	964	7966½	1290	10220½
High Service		2934		2934
Total in feet				13154½
Pipes laid previous to 1882				359538
Total in feet Jan. 1, 1883				372692½
Total in miles Jan. 1, 1883				70.58

SCHEDULE No. 4.—Low Service.

LIST OF HYDRANTS SET IN 1882.

STREETS.	LOCATION.
Beach . . .	P East side, 352 feet north from Third Street.
Bowers . . .	P South side, 117½ feet east from Fletcher Street.
Bridge . . .	P East side, opposite Flint's house.
Belmont . . .	P East side, 480 feet north from Pine Street.
Columbus Ave.	P North side, 382½ feet east from Wilder Street.
Court . . .	P East side, 219 feet south from Manchester Street.
Chelmsford . .	P West side, 1935 feet south from Forrest Street.
Edson . . .	P West side, 356 feet north from Westford Street.
East Merrimack	P South side, 17 feet west from east line of Stackpole Street.
Fulton . . .	P West side, 46½ feet south from West Street.
Harrison Ave.	P North side, 188 feet west from Bridge street.
Pine Hill . . .	P West side, 101½ feet north from Chambers Street.
Stevens . . .	P West side, 1084½ feet south from Pine Street.
School . . .	P West side, 92 feet north from Mason Street.
Shaw . . .	P North side, 37½ feet east from west line of Sagamore Street.
Stevens . . .	P West side, 429 feet north from Princeton Street.
Warren . . .	F North side, 288 feet north from west line of Warren Street.

SCHEDULE No. 5.—High Service.

LIST OF HYDRANTS SET IN 1882.

STREETS.	LOCATION.
Eleventh . . .	P South side, 281 feet west from Beacon Street.
Fairview . . .	P South side, 316 feet east from Fairmount Street.
Fremont . . .	P East side, 282 feet south from Sixth Street.
Fairmount . . .	P West side, 346 feet south from Hydrant opposite residence of Col. Pinder.
Fairmount . . .	P West side, 653 feet south from Hydrant opposite residence of Col. Pinder.
Fairmount . . .	P West side, opposite residence of James Ferguson.
Mansur . . .	P South side, 166 feet west from Belmont Ave.

F denotes flush hydrant.

P denotes post hydrant.

SCHEDULE No. 6.—Low Service.

LIST OF GATES SET IN 1882.

STREETS.	LOCATION.	8 inch.	6 inch.	4 inch.
Bridge . .	14.3 feet west from the east line of Bridge Street. 12 feet north from 3-way connecting Poor Farm Road.		1	
Belmont . .	9½ feet west from the east line of Belmont Street. 3 feet south from the north line of Pine Street.		1	
Edson . .	22 feet west from the east line of Edson Street. 6 feet north from the north line of Westford Street.		1	
E. Merrimack	16 feet south from the north line of East Merrimack Street. 4 feet west from west line of Stackpole Street.		1	
Hastings . .	10.5 feet east from the west line of Hastings Street, on north line of Liberty Street.		1	
Harrison Ave.	9.4 feet south from the north line of Harrison Ave. 6.3 feet west from west line of Bridge Street.			1
Kinsman . .	11 feet south from the north line of Kinsman Street. 2 feet west from southwest line of Crosby Street.		1	
Moore . .	17.5 feet south from the north line of Moore Street. 10 feet west from west line of Bleachery Street.			1
Main . .	11 feet east from west line of Main Street. 1.5 feet south from north line of Lincoln Street.		1	
Mason . .	8.5 feet south from north line of Mason Street. 4 feet west from west line of Powell street.		1	
Otis . .	12.5 feet east from west line of Otis Street, on north line of Moore Street.			1
Pine Hill . .	11 feet east from west line of Pine Hill Street. 2 feet north from north line of Chambers Street.		1	
Plain . .	15 feet north from south line of Plain Street 6.5 feet east from east line of Chelmsford Street.		1	
Sargent . .	13 feet north from south line of Sargent Street. 3 feet west from west line of School Street.		1	
West . .	28.5 feet west from east line of West Street. 1.7 feet south from north line of River Street.		1	
Weare . .	18 feet north from south line of Weare Street. 6 feet east from west line of Grand Street.		1	

SCHEDULE No. 7.—High Service.

LIST OF GATES SET IN 1882.

STREETS.	LOCATION.	8 inch.	6 inch.	4 inch.
Beacon . .	13½ feet east from the west line of Beacon Street, on the north line of Tenth Street.		1	
Fairview . .	16 feet north from the south line of Fairview Street. 2 feet east from the east line of Fairmount Street.		1	

SCHEDULE No. 8.

PROPERTY AT PIPE YARD JAN. 1, 1883.

PIPE AND SPECIALS.

DIAMETER IN INCHES. . . .	4	6	8	10	12	16	20	24	30
Lengths, . . . . .	. .	13	69	30	97	5	19	7	15
Cut pieces, whole length in feet	2	3	. .	1	. .	1	. .	30	. .
Second-hand, in feet . . . .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Curves	11	29	22	2	16	4	11	3	4
Sleeves	7	4	12	4	20	10	1	8	5
Half Sleeves . . . . .	. .	. .	. .	. .	. .	. .	. .	7	1
Caps	9	5	37	. .	18	3	1	1	. .

Diam. in inches.	4x4	6x4	6x6	8x6	8x8	10x6	12x6	12x8	12x12	16x12	16x6	16x8	16x16	20x12	20x16
3-Ways	..	6	22	14	4	2	21	8	. .	. .	2	1	. .	3	. .
4-Ways	1	..	13	7	7	. .	9	2	2	3	1	. .	1	. .	. .
Reducers	..	8	..	14	..	. .	8	5	. .	1	. .	. .	. .	. .	. .

4-Ways.—1 2x1½-inch, 1 2x1-inch, 2 2x¾-inch, 1 1½x1-inch, 16 1x1-inch, 11 1x¾-inch, 35 ¾-inch. **3-Ways.**—3 2x2-inch, 7 2x1½-inch, 5 1½x¾-inch, 2 1½x1-inch, 8 1½x¾-inch, 3 1½x1-inch, 7 1-inch, 9 1-inch. **Elbows.**—5 2-inch, 9 1½-inch, 175 ¾-inch, 5 ½-inch, 11 1¼-inch, 23 1x¾ inch, 1 2x1-inch, 16 1½-inch. **Turns.**—7 1-inch, 9 ¾-inch. **Wrought Iron Pipe.**—10 feet 2½-inch, 20 feet 2-inch, 75 feet 1½-inch, 100 feet 1-inch, 100 feet ¾-inch, 30 feet ½-inch. **Lead Connections.**—2 2-inch, 10 1-inch, 15 ¾-inch, 10 1-inch for cement pipe, 14 ¾-inch for cement pipe, 11 ⅝-inch for

cement pipe. **Corporation Cocks.**—30 1-inch, 6 $\frac{3}{4}$ -inch, 17 $\frac{5}{8}$ -inch, 9 1-inch for cement pipe, 13 $\frac{3}{4}$ -inch for cement pipe, 11 $\frac{5}{8}$ -inch for cement pipe. **Stop and Waste Cocks.**—1 $1\frac{1}{2}$ -inch, 31 1-inch, 6 $\frac{3}{4}$ -inch, 17 $\frac{3}{4}$ -inch old style. **Brass Unions.**—41 1-inch, 7 $\frac{5}{8}$ -inch. **Iron Unions.**—3 1-inch, 150 $\frac{3}{4}$ -inch, 2 $1\frac{1}{2}$ -inch, 5 2-inch. **Sockets.**—6 $1\frac{1}{2}$ -inch, 26 1-inch, 17 $\frac{5}{8}$ -inch. **Plugs.**—1 $1\frac{1}{2}$ -inch, 16 1-inch, 18 $\frac{3}{4}$ -inch, 10 $\frac{1}{2}$ -inch. **Couplings.**—1 $2\frac{1}{2}$ -inch, 45 2-inch, 29 $1\frac{1}{2}$ -inch, 2 $1\frac{1}{4}$ -inch, 39 1-inch, 118 $\frac{3}{4}$ -inch. **Bushings.**—1 $2\times1\frac{1}{2}$ -inch, 17 $1\times\frac{3}{4}$ -inch. **Sundries.**—2 derricks, 1 pipe testing machine, 3 tool boxes, 48 sidewalk boxes, 6 iron sidewalk boxes, 2 cords wood, 1 combination fountain, 4 lead-pots, 2 furnaces, 2 tons hay, 11 work benches, 1 large map of main pipe, 1 10-foot ladder, 1 coal stove, 1 coal hod, 2 framing chisels, 2 zinc pumps, 1 counter scale, 4 tool chests, 4 chairs, 1 12-foot ladder, 1 apparatus for testing meters, 1 copper force pump, 3 tapping machines, 4 brooms, 7 galvanizers, 6 iron buckets, 1 keg 10d. nails, 1 keg 20d. nails, 2 wagon wrenches, 36 assorted wrenches, 12 monkey wrenches, 8 rammers, 3 paving mauls, 33 shovels, 75 picks, 3 hoes, 8 draught chains, 1 bbl. cement, 1 bbl. white clay, 2 snow shovels, 25 pick-handles, 9 crowbars, 60 feet rubber hose, 1 hose reel, 1 copper goose-neck, 2 brass reducers, 2 portable closets, 13 lanterns, 1 gross lamp wicks, 4 hand saws, 2 buck saws, 1 saw horse, 1 leather tool-bag, 1 tin match-safe, 30 calking sets, 3 nail hammers, 8 striking hammers, 2 paving hammers, 2 stone hammers, 3 sledge hammers, 4 rubber connections, 1 fore-plane, 65 feet tile drain pipe, 250 sidewalk caps, 3 pairs rubber boots, 1 pair rubber wading pants, 200 feet canvas hose, 20 iron lug-straps, 250 lbs. iron bolts, 1 keg spikes, 26 iron valves, 9 rubber packings, 3 solder-furnaces, 2 sprinkling pots, 2 iron-wood mallets, 3 soldering irons, 8 assorted files, 12 gravel screens, 5 hanging irons for bridges, 2 3-foot screws, 1 bale sand bags, 1 machine for cement-lining pipe, 10 iron bands for pipe, 5 lbs. cotton waste, 6 hydrant dippers and chains, 1 press drill, 4 washer cutters, 1 grindstone, 300 lbs. iron, 1 set blacksmith tools, 9 screw drivers, 10 lbs. iron washers, 30 lbs. assorted nuts, 6 calking hammers, 100 lbs. brass hinges, 1 set steel numbers, 1 lathe dog, 1 foot-lathe, 1 universal chuck, 2 hatchets, 2 axes, 2 brass faucets, 30 brass seals, 2 ratchet dies, 814 lbs. steel in drills, 6 scrapers for blasting, 8 pipe wedges, 2 yarning irons, 1 sieve, 1 ratchet cutter, 4 pipe vices, 2 iron buckets for testing meters, 12 cold-chisels, 1 bit-stock, 3 bits, 3 large lead ladles, 5 sling-ropes, 4 dies, 3 die plates, 13 pipe-tongs, 2 pipe cutters, 2 trowels, 8 gate screws, 7 hydrant screws, 2 iron rakes, 2 square-point shovels, 8 wood plugs for main pipe, 5 lbs. shims and wedges, 1 root axe, 1 dualin pot, 1000 lbs. iron rods, 1 10-gallon can, 1 5-gallon can, 1 2-gallon can, 1 1-gallon can, 3 $\frac{1}{2}$ -gallon cans, 4 1-quart measures, 1 4-quart wood measure, 1 tunnel, 2 desks, 1 40-foot leather belt, 1 blacksmith shop, 1 work shop, 1 carriage house, 1 stable, 1 shed for storage, 1 grain box, 1 horse, 3 harnesses, 1 canvas horse-cover, 2 horse blankets, 2 surcingles, 1 halter, 1 horse brush, 2 dusters, 1 carriage cover, 3 forks, 2 wagon jacks, 1 pung, 2 express wagons, 25 1-inch brass union nipples, 6 $\frac{3}{4}$ -inch union nipples, 51 cut glands for meters, 10 ends to Worthington meter, 1 surface plate, 2 sheets emery cloth, 3 sets packing patterns, 13 Worthington meter indicators, 5 lbs. leather, 17 piston rods for meters, 1 wire brush, 2 oil pans, 1 oil brush, 1 indicator for Desper meter, 1 brass lantern, 1 brass lamp, 2 siphons with pipe attached, 125 feet block tin tubing attached to force pump, 1 solder pot and mould, 1 pair pliers, 1 pair cut nippers, 2 valves and valve seats for Worthington meter, 5 hard packings for meters, 1 keg blasting powder, 6 hammer handles, 1 16-foot straight-edge, 9 steel points, 2000 lbs. lead, 3 sets blocks, 1 fall rope, 6 tag ropes, 2 framing squares, 1 iron tamping bar, 1 stop gate wheel, 15 1-inch caps, 17 $\frac{3}{4}$ -inch caps, 8 $\frac{1}{2}$ -inch caps, 2 gate frames, 2 gate covers, 3 gate covers, old style, 7 hydrant frames, 11 hydrant covers, 2 hydrant covers, old style, 2 hydrant frames, old style, 2 2-inch rotary meters, second-hand, 1 $1\frac{1}{2}$ -inch rotary, second-hand, 3 1-inch rotary, second-hand, 1 $\frac{3}{4}$ -inch rotary, second-hand, 6 $\frac{5}{8}$ -inch rotary, second-hand, 1 $\frac{1}{2}$ -inch Ball & Fitts, second hand, 13 $\frac{5}{8}$ -inch Desper meters, 2 2-inch Worthington meters, 1 iron tube pump and boring machine. The above named property is valued at \$17,000.00.

Tools at Filter Inlet.

2 iron-tooth rakes, 11 shovels, 1 rammer, 1 axe, 2 ice-chisels, 1 gate wrench, 1 nail hammer, 1 pick, 2 brooms, 1 wheelbarrow. The above named property is valued at \$20.00.

Tools at Reservoir.

1 grindstone, 2 iron rakes, 3 forks, 6 shovels, 1 sod cutter, 1 axe, 1 saw, 2 hoes, 2 scythes, 2 snaths, 1 grass hook, 1 wheelbarrow, 1 coil rope, 2 spare screws, 2 thermometers, 1 lantern, 1 snow shovel, 1 iron bar. The above named property is valued at \$25.00.

Property in Water Board and Superintendent's Office.

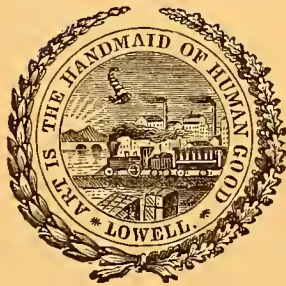
17 chairs, 2 high stools, 1 letter press, 3 desks with drawers, 3 standing desks, 1 roll-cover desk, 3 office tables, 1 book-case, 1 clock, 3 thermometers, 5 ink stands, 1 tumbler, 4 maps of Lowell, 1 map of water-distributing pipes, 3 waste baskets, 3 mats, 3 hat-racks, 6 spittoons, 8 assorted wrenches, 1 tin match-safe, 1 lantern, 1 water-gauge, 1 apparatus for sealing gates, 2 screw drivers, 2 monkey wrenches, 2 files, 1 safe, 1 key-rack, 2 picks, 1 steel prodding bar, 1 shovel, 1 atlas of Lowell, 1 atlas of Middlesex County, 1 black-walnut book-case. The above named property is valued at \$500.00.

Property and Tools at Engine House.

1 vise, 1 work bench, 1 portable forge, 8 sets brasses for engine, 2 sets differential blocks, 1 piece 2-inch rope, 2 sets fire irons, 1 brass hydrant, 3 axes, 11 wrenches, 1 hand-saw, 2 jack-screws, 26 cold-chisels, 1 ratchet drill, 1 socket-drill, 3 calking chisels, 1 barometer, 2 thermometers, 1 water cooler, 1 desk, 1 indicator, 1 oil cupboard, 2 oil dishes, 1 platform scale, 4 crowbars, 64 feet $\frac{3}{8}$ -inch chain, 16 eyebolts, 1 truck, 1 key wrench, 1 wrench for air pump, 1 iron wheelbarrow, 2 hand saws, 1 buck-saw, 1 saw-horse, 2 gas lamps, 1 high grade thermometer, 4 brass bolts $1\frac{1}{2}$ -inch diameter for pump valve, 5 spare pump valves, 5 sets spare weights for valves, 11 socket wrenches, 7 pairs gas tongs, 11 finished wrenches Morris engine, 11 finished wrenches Worthington engine, 3 sledge hammers, 12 drills, 1 black-walnut cabinet, 9 chairs, 2 lengths hose, 6 copper lamps, 4 shovels, 1 floor brush, 100 bolts assorted sizes, 2 bit-stocks, 3 bits, 1 25-foot ladder, 1 20-foot, 1 8-foot, 1 pair steps, 1 hoe, 2 racks, 1 small die plate, 1 fore-plane, 3 monkey wrenches, 100 feet 2-inch rope, 4 chisel bars, 6 small taps, 4 finished socket wrenches Worthington engine, 2 14-quart iron pails, 4 hand hammers, 1 extra set grates for boiler, 1 grindstone, 1 anvil, 2 shovels, 1 clock. The above named property is valued at \$105,300.00.



ANNUAL REPORT
OF THE
POLICE DEPARTMENT
OF THE
CITY OF LOWELL:
FOR THE YEAR 1882.



LOWELL, MASS.:
PRINTED BY CAMPBELL & HANSCOM, 22 CENTRAL ST.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Dec. 26, 1882.

Ordered on file. -

DAVID W. O'BRIEN, *City Clerk.*

REPORT.

CITY MARSHAL'S OFFICE,
LOWELL, MASS., December 25, 1882. }

To the Honorable Mayor and Board of Aldermen :

GENTLEMEN: I have the honor to submit to you my annual report of the Police Department for the year ending November 30, 1882, showing the strength and condition of the force, and reviewing briefly the service performed by it during the year.

The force consists of fifty-seven regular officers, as follows : —

1 CITY MARSHAL.
2 DEPUTY MARSHALS.
2 SERGEANTS.
52 PATROLMEN.

The hours of service are so arranged that from 8 A. M. to 5 P. M. 18 officers are on duty ; from 5 P. M. to 7 P. M. 22 officers are on duty ; from 7 P. M. to 4 A. M. 37 officers are on duty ; and from 4 A. M. to 10 A. M. 10 officers are on duty.

There are also, belonging to the department, ten supernumerary officers, who report at roll-call at 6 : 45

P. M., each day, when as many as are needed to fill the places of absent officers and for special duty are detailed by the captain, and receive pay for the time they are on duty.

The Senior Deputy Marshal is on duty at the Marshal's office. The Junior Deputy Marshal acts as captain of the night force. One sergeant is on duty from 7 P. M. to 4 A. M., and one from 11 P. M. to 8 A. M.

By this arrangement the captain and sergeants and a large force of patrolmen are on duty during the dangerous hours of the night, and I know of no better disposition that can be made of the force, with the present number of men.

Daniel M. Hayes and John F. McCaffrey have performed the duties of detectives during the year, and have been successful in the discharge of duties that few men are qualified to perform.

Harrison H. Fuller and James A. Hadley have acted as warrant or court officers,—serving and returning warrants, attending the sessions of the Police Court, and conveying those who have been sentenced to prisons and reformatory institutions.

Simon B. Harris and James McLaughlin have been detailed to enforce the liquor law, and have been zealous and impartial in the performance of duties that are anything but pleasant.

Isaac L. Libby and Levi Brown have acted as keepers of the lock-up, and have given general satisfaction.

APPOINTMENTS AND PROMOTIONS.

Eight supernumerary officers have been appointed during the year, and seven have been promoted to the regular force.

DISCHARGES AND RESIGNATIONS.

Three regular and three supernumerary officers have been discharged, and four regular and two supernumerary officers have resigned.

Two officers have been removed by death. Allen P. Bickford, who entered the service September, 1866, was killed by being run over by cars, at the Middlesex street crossing, in this city, September 6, 1882. He was a faithful and efficient officer, respected by all who knew him, and beloved by his brother officers, who attended his funeral in a body.

Frank T. Thissell, who entered the service January, 1859, died June 11, 1882, of pneumonia, after an illness of seven days. He was an officer of undoubted courage and ability, and served the city faithfully for over twenty-three years.

ROLL OF THE DEPARTMENT.

NAME.	RANK.	BIRTH PLACE.	ENTERED SERVICE.
Edward J. Noyes.....	Marshal.....	Georgetown, Mass.....	1881
Jacob G. Favor.....	Deputy Marshal....	New Hampton, N. H....	1859
Charles Howard.....	Deputy Marshal....	Lowell, Mass.....	1871
Frank Goodwin.....	Sergeant	Newport, N. H.....	1872
Charles Gregg.....	Sergeant	Franklin, N. H.	1880
Daniel M. Hayes	Detective	Bradford, Vt.	1874
John F. McCaffrey.....	Detective	Lowell, Mass.....	1874
Harrison H. Fuller	Court Officer.....	Moultonborough, N. H..	1848
James A. Hadley.....	Court Officer.....	Danville, Vt.....	1877

NAME.	RANK.	BIRTHPLACE.	ENTERED SERVICE.
Isaac L. Libby	Keeper	Hartford, Me.....	1864
Levi Brown	Keeper.....	Stanstead, Canada.....	1852
Simon B. Harris.....	Patrolman	Bethlehem, N. H.....	1875
James McLaughlin.....	"	Ireland	1882
Thomas E. Allen.....	"	Lowell, Mass.....	1881
John Buchanan.....	"	Nova Scotia.....	1871
William G. Bumps.....	"	Thorndike, Me.....	1881
Cornelius E. Collins.....	"	Lowell, Mass.....	1879
Peter T. Corcoran	"	Ireland	1880
George Davis.....	"	East Corinth, Me.....	1881
James Dunlavy.....	"	Newburyport, Mass....	1880
George F. Dunlavy.....	"	Lowell, Mass.....	1880
Peter Donohue	"	Providence, R. I.....	1881
Patrick Fitzpatrick.....	"	Ireland	1881
Henry Farrington.....	"	Stow, Me	1871
David H. Goodhue.....	"	Enfield, N. H.....	1855
Willis L. Gardner.....	"	Cutler, Me.....	1880
William H. Grady.....	"	Lowell, Mass.....	1881
Enoch N. Grinnell.....	"	New Bedford, Mass....	1881
Dennis F. Gallivan	"	Lowell, Mass.....	1881
Alexander Harper.....	"	Lowell, Mass.....	1880
John Hickson	"	Ireland	1880
B. F. Hanson.....	"	Barnston, Canada.....	1881
Alfred M. Holman.....	"	York, Me.....	1881
Thomas Ingalls.....	"	Salem, Mass.....	1859
William B. Jones.....	"	St. Lawrence Co., N. Y.	1877
William R. Kew.....	"	Waitsfield, Vt.	1880
Albert E. Libby.....	"	Hartford, Me.....	1869
Chester P. Lewis.....	"	Athens, Penn	1881
Daniel W. Lane.....	"	Harwich, Mass.....	1879
Charles Laflamme	"	Canada	1881
James A. McQuade.....	"	Lowell, Mass.....	1879
Charles J. Morse	"	Lowell, Mass.....	1880
Michael E. McDonald....	"	Lowell, Mass.....	1875
William B. Moffatt.....	"	Ireland	1881
Peter F. O'Donnell	"	Lowell, Mass.....	1881
Alonzo Page	"	Livermore, Me.....	1869
Henry C. Pike.....	"	Sebago, Me.....	1877
Charles C. Packard.....	"	Kingsfield, Me	1880

POLICE DEPARTMENT.

7

NAME.	RANK.	BIRTHPLACE.	ENTERED SERVICE.
Thomas F. Ring.....	Patrolman.....	Charlestown, Mass.....	1879
James Riley.....	"	Ireland	1881
Thomas J. Sanborn.....	"	Sanbornton, N. H.....	1858
Herbert N. Streeter.....	"	Lowell, Mass.....	1881
John W. Tilton.....	"	Lowell, Mass.....	1871
Herman N. Tilton.....	"	Lowell, Mass.....	1873
James E. Webster.....	"	Conway, N. H.....	1865
Levi H. Witham.....	"	Kingsfield, Me.....	1863
B. Eugene Cheney.....	Supernumerary	Nashua, N. H.	1881
George B. Crawford.....	"	Burnham, Me.....	1881
John Durrough.....	"	Scotland	1881
Joseph B. Varnum.....	"	Dracut, Mass.....	1881
Josiah S. Blood.....	"	Whitefield, N. H.....	1882
Cyrus M. Beals.....	"	Greene, Me.....	1882
Edmond G. Dyer	"	Appleton, Me.	1882
Albert F. Elliott.....	"	Haverhill, N. H.....	1882
John O'Connell.....	"	Ireland	1882

FINANCIAL STATEMENT.

The following is a statement of the receipts and expenditures of the department : —

Balance on hand Jan. 1, 1882	\$3,677 59
Appropriation	53,500 00
Receipts for officers services, fees, etc.	8,328 09
	<hr/>
	\$65,505 68
Total expenditures	\$64,425 09
	<hr/>
Balance on hand Jan. 1, 1883	1,080 59
Total expenditures above receipts	\$56,097 00

LODGERS.

Whole number admitted for lodging	1,276
Males	1,220
Females	56
Foreigners	1,013

REPORT OF THE

Americans	263
Minors	154
Non-Residents	1,223
Colored	3

NUMBER OF ARRESTS.

Whole number of arrests	2,849
Males	2,243
Females	606
Foreigners	2,231
Americans	618
Minors	325
Non-Residents	493
Colored	11

CAUSES OF ARRESTS.

Common drunkards	105
Drunkenness, second offence	143
Drunkenness, third offence	70
Drunkenness	1,588
Assault and Battery	183
Breaking and entering	27
Disturbing the peace	48
Larceny	196
Vagrancy	9
Breaking glass	10
Unlawfully taking and driving a horse	6
Adultery	17
Fornication	33
Illicit cohabitation	4
Obtaining goods by false pretences	3
Malicious mischief	4
Stubborn children	18
Embezzlement	10

Forgery	4
Keeping unlicensed dog	2
Doing business on Lord's day	12
Unlawfully keeping liquor	75
Keeping liquor nuisance	24
Unlawful sale of liquor to be drank on premises.	7
Unlawful sale of liquor to be drank off premises	1
Sale of liquor to intoxicated person	1
Unlawful sale of liquor to a minor	7
Unlawful sale of liquor on Lord's day	1
Safe keeping	10
Suspicious person	15
Insane	36
Violation of vault ordinance	1
Unlawful bathing in city	9
Fast driving	4
Truancy	70
Wandering about street	10
Playing game in street	9
Playing game on Lord's day	10
Selling mortgaged property	6
Concealing mortgaged property	3
Using threatening language	11
Bastardy	6
Evading car fare	6
Unlawfully removing baggage from a boarding- house	16
Common night-walkers	5
Disturbing school	3
Arson	1
Cruelty to a horse	8
Cruelty to a dog	1
Escaped prisoner	6
Surrendered by bail	4

Obstructing street	9
Conveying liquor to prisoner	2
Capias from Superior Court	8
Receiving stolen property	7
Keeping intelligence office without license	1
Rape	2
Violation of screen law	3
Indecent exposure of person	2
Peddling without license	2
Delirium tremens	6
Carrying concealed weapons	2
Held as witnesses	3
Murder	2
Being present at a game of cards on Lord's day	8
Fast driving on bridge	2
Violation of hack ordinance	1
Violation of milk law	3
Lewd and lascivious persons	2
Discharging fire crackers in city	2
Contempt of court	2
Begging	1
Wilful trespass	9
Conveying passengers for hire without license	4
Neglect to support family	4
Common railer and brawler	3

PROSECUTIONS.

Whole number of prosecutions before the police court	2,380
Common drunkard	105
Drunkenness, second offence	143
Drunkenness, third offence	70
Drunkenness	1,210
Assault and battery	164
Breaking and entering	21

Disturbing the peace	43
Larceny	174
Vagrancy	7
Breaking glass	8
Unlawfully taking and driving a horse	8
Adultery	15
Fornication	33
Illicit cohabitation	5
Obtaining goods by false pretences	2
Malicious mischief	3
Disobedient children	13
Embezzlement	10
Forgery	3
Keeping unlicensed dog	1
Doing business on Lord's day	15
Unlawfully keeping liquor	75
Keeping liquor nuisance	24
Unlawful sale of liquor to be drank on premises	7
Unlawful sale of liquor to be drank off premises	1
Sale of liquor to an intoxicated person	1
Unlawful sale of liquor to a minor	7
Unlawful sale of liquor on Lord's day	1
Cruelty to a horse	10
Escaped prisoner	2
Unlawfully removing baggage from a boarding-house	13
Violation of vault ordinance	1
Unlawfully bathing in city	5
Fast driving	3
Bastardy	4
Truancy	70
Playing game in street	10
Playing game on common	1
Playing game on Lord's day	10

Selling mortgaged property	2
Concealing mortgaged property	3
Using threatening language	9
Violation of hack ordinance	1
Evading car fare	1
Obstructing street	7
Violation of milk law	3
Receiving stolen goods	4
Carrying passengers without license	4
Peddling without license	2
Common railer and brawler	3
Neglect of family	3
Discharging fire-arms in city limits	1
Defrauding inn-holder	2
Falsely pretending to be a sheriff	1
Being present at a game of cards on the Lord's day	9
Unlawfully taking a boat	2
Threatening to burn a building	1
Fast driving on a bridge	2
Keeping an intelligence office without a license .	1
Cruelty to a dog	1
Indecent exposure of person	2
Rape	1
Murder	2
Wilful trespass	9

NOT GUILTY AND DISCHARGED.

Whole number not found guilty and discharged by court,	30
Assault and battery	14
Larceny	11
Selling liquor to a minor	1
Doing business on Lord's day	1
Stubborn child	1
Neglect to support family	1
Receiving stolen goods	1

CITY ORDINANCE CASES.

Whole number of city ordinance cases	105
Truancy	62
Fast driving	3
Obstructing street.	8
Violation of hack ordinance	1
Wandering about street	11
Violation of vault ordinance	1
Unlawfully bathing	5
Playing game in street	7
Fast driving on a bridge	2
Carrying passengers for hire without license . .	4
Amount of money taken from and returned to persons committed	\$6,130 64

ORDINANCE CASES REPORTED.

Defective streets and sidewalks	332
Defective lamps and burners	1,332
Defective cess-pools	9
Defective hydrants	2
Obstructions removed from streets and sidewalks .	227
Assisted home drunk	1,076
Disturbances quelled without arrest	1,173
Drains, vaults, and nuisances reported	24
Lost children returned to parents	77
Stray teams put up at stables	61
Store doors found open and secured	286
Search-warrants for liquor served	611
Number of seizures made	121
Number of gallons of liquor seized	2,779
Number of prosecutions for violations of the license law in various forms	131

Number of licenses forfeited	17
Number of inspections of licensed premises	3,102
Fees earned for the use of the city in liquor cases	\$927 70
Officer's fees on warrants and mittimusses, earned for the use of the city :—	
By Harrison H. Fuller	3,615 25
James A. Hadley	2,213 00
Other officers	280 00

The Committee on Police, consisting of Aldermen Thomas R. Garity, George S. Cushing, and William A. Wright, have given the department a generous and able support, devoting much valuable time to hearings and other matters pertaining to its interests.

IMPROVEMENTS.

The offices at the station house have been improved and refurnished. A rogue's picture-gallery, of an improved pattern, has been placed in the Marshal's office. A second team has been purchased for the use of the department. A padded cell has been fitted up and straight jackets furnished, for the accommodation of the insane; and many other improvements have been made for the comfort and convenience of the department. Arrangements have been made for a part of the force to sleep at the station-house, and they form a reserve, to be called out on any emergency.

In my last annual report I recommended mounting a few of the patrolmen in the outlying districts. Dur-

ing the summer months the experiment was tried, by placing men mounted on hired horses on the outer beats. The results were satisfactory, and I respectfully recommend the purchase and equipment of four horses for this service.

A sub-station, at some convenient point between the North common and the Northern depot, is much needed ; and when a sufficient appropriation for its construction and equipment can be obtained, it will be found to greatly facilitate the work of the department.

I am happy to report that no serious disturbances or outbreaks have occurred during the year. The police and fire departments have worked harmoniously together, showing a desire to help each other on every occasion.

Military drill has been continued, and the result has been very satisfactory, both in the improvement made in the bearing and general appearance of the men, and the preparation it has given them for acting in a body, if they should be called upon for such service.

Since the wood yard on the city landing has been dispensed with, the number of lodgers has increased, and no doubt will still further increase as the information that they are no longer required to work for their lodging and breakfast spreads among the fraternity of tramps.

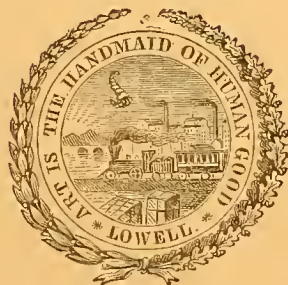
I am pleased to acknowledge my indebtedness to the Board of Aldermen, for their promptness and decision in sustaining me in my efforts to govern and improve

the department. And I also thank the Honorable Judge and Clerk of the Police Court, for valuable counsel and advice, and the Deputy Marshals and officers of the force generally, for the faithful performance of their duty.

Respectfully submitted.

EDWARD J. NOYES,
City Marshal.

ANNUAL REPORT
OF THE
CITY SOLICITOR
OF THE
CITY OF LOWELL,
FOR THE YEAR ENDING FEBRUARY 28, 1883.



LOWELL:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 24, 1883.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, April 24, 1883.

Received and read.

DAVID CHASE, *Clerk*.

REPORT.

OFFICE OF THE CITY SOLICITOR,

LOWELL, February 28, 1883.

To the City Council :

GENTLEMEN: I have the honor to submit the following report of the business of this office for the year ending with this date.

The following actions and proceedings were pending March 1, 1882:

Charles W. Saunders *v.* City of Lowell.
John M. Pevey *v.* City of Lowell.
Benjamin Dean *et al.*, trustees *v.* City of Lowell.
Heirs of J. E. Hadley *v.* City of Lowell.
Maria Stevens *v.* City of Lowell.
Elizabeth Shaw *v.* City of Lowell.
Louis N. Hevy *v.* City of Lowell.
Thomas Flynn, *v.* City of Lowell.
William Manning *v.* City of Lowell.
James A. Smith *v.* City of Lowell.
Flora Forbes *v.* City of Lowell.
Eugene H. Wright *v.* City of Lowell.
A. J. Livingston *et al.* *v.* City of Lowell.

SAUNDERS *v.* LOWELL.

This ease, contrary to expectation, has not been settled by trial before a Sheriff's jury. Early in its pendency negotiations were entered into looking toward disposal by arbitration. At the time of the last annual report from this office it was stated, that such negotiations had proved ineffectual. Recently, however, an agreement has been made referring to arbitrators. They are Daniel S. Richardson, Esq., John A. Loring, Esq. of Boston and John W. Hammond, Esq., City Solicitor of Cambridge. The first named was agreed to by both parties to the ease; the last was suggested by the City of Lowell and Mr. Loring was mentioned by the petitioner.

PEVEY *v.* LOWELL.

This ease, which is a petition for damages also occasioned by the laying of the "Marginal Sewer" has not been brought forward by the petitioner, the evident purpose being to delay until the Saunders ease shall be settled. After the adjustment of the latter, it is to be hoped, that a basis for the disposition of the Pevey claim may be reached.

THE CHELMSFORD STREET CASES.

Dean et al., Trustees v. Lowell. Hadley heirs v. Lowell.
Stevens v. Lowell. Livingston et al. v. Lowell.

There has been no progress in this group of cases, since the last report of the City Solicitor. An assessment of damages had been made by a Sheriff's jury, and the exceptions of the respondent were awaiting argument in the Supreme Court. A hearing will undoubtedly be had before that court during the coming March.

SHAW *v.* LOWELL.

In this ease judgment was entered for the city at the last March term of the Superior Court in accordance with the decision of the

Supreme Court in *Shea v. Lowell*. In both cases the same question of law arose and the former was continued in 1881 to abide the decision of the latter.

HEVY *v.* LOWELL.

At the trial during the September term of 1881, a verdict was rendered for the defendant. The plaintiff alleged exceptions, which have not yet been allowed.

FLYNN *v.* LOWELL.

This is a petition for damages occasioned by the laying out and extension of Mead street. The city proposed reference to arbitrators and this proposition was accepted by the petitioner through counsel, but every effort to proceed and further has thus far been unavailing.

MANNING *v.* LOWELL.

This is another case of long standing. It has been carried to the Supreme Court once and has finally ended with an entry of "neither party."

SMITH *v.* LOWELL.

This action was brought to recover damages for personal injuries received by a fall on an icy sidewalk on Merrimack street, near Central street. It has never been brought forward for trial by the plaintiff, and probably never will be.

FORBES *v.* LOWELL.

This was a suit for personal injuries and was settled without a trial.

WRIGHT *v.* LOWELL.

The plaintiff while driving in a sleigh upon Central street between "Tower's Corner" and Jackson street in February 1881, met with an

accident due, as claimed, to the dangerous condition of that portion of Central street caused by the removal of ice from the horse railroad track therein. The sleigh was overturned, the horse became unmanageable, ran away, received severe injury and was afterwards killed on examination by a veterinary surgeon. The plaintiff made no claim for personal injuries; but brought this action to recover compensation for the horse, alleged to be a valuable animal and worth \$500. It being apparent that the Horse Railroad Company would be responsible to the city in case damages should be assessed, the company was immediately notified to assume the defense of the action. Thereupon that corporation did assume the entire management of the defense. The case was tried at the last March term of the Superior Court, resulting in a disagreement of the jury. There will probably be a re-trial at the coming March term.

The following suits and proceedings have been brought and instituted during the year:—

Honoraria Dunphy *v.* City of Lowell.
Soloman Baehman *v.* City of Lowell.
Herbert E. Webster adm. *v.* City of Lowell.
Shaw Stocking Co. *v.* City of Lowell.
Alice M. Clarry *v.* City of Lowell.
Ormerod Duekworth *v.* City of Lowell.
Ann Ashworth *v.* City of Lowell.
Mary A. Daniels *v.* City of Lowell.
Kate Cunnane *v.* City of Lowell.

DUNPHY *v.* LOWELL.

This was an action brought to recover damages for injuries received by falling upon a sidewalk, alleged to be defective, and situ-

ated on Jefferson street. The defect was a depression or hole in a concreted crossing and the injury was a fracture of the ankle. Unless an advantageous adjustment can be made before that time, the case will undoubtedly be tried in March next.

BACHMAN *v.* LOWELL.

Soloman Bachman, owner of the Merrimack Mills, at the "Navy Yard" in Dracut, applied to the Superior Court for a jury to assess damages to his mill property on Beaver Brook, caused by the erection of the piers of the Aiken Street Bridge, thereby obstructing the flow of water.

WEBSTER, ADM., *v.* LOWELL.

This is also a petition or application to the Superior Court for a jury to assess damages, which in this case were caused to the premises on Hanover street, belonging to the estate of Mary E. Webster, now deceased, by the discontinuance of a portion of that street. The resolution of the City Council discontinuing the street was adopted October 25th, 1881. No remedy was sought by the petitioner until August, 1882.

The Tremont and Suffolk mills being especially desirous that the street should be discontinued, entered into a written agreement with the city to save the latter harmless from all damages that should be recovered. That corporation, on the filing of the petition for a jury, being notified and requested to assume the defence, promptly appeared by counsel and has assumed the management of the case.

SHAW STOCKING CO. *v.* LOWELL.

The Shaw Stocking Company seeks damages for the cutting off of an ancient water-course by the construction of sewers in Powell and Smith streets. It is claimed that before the laying of the sewers all

the water used at the works of the company and enough for a "dye-house" to be erected was supplied by the stream alleged to be diverted. The remedy chosen is an application to the Superior Court for a jury.

CLARRY *v.* LOWELL.

By resolution of the City Council adopted May 26, 1881, Powell street was "widened, altered and laid out anew." The plaintiff applied to the Superior Court for a jury on the ground that by the operation of the resolution land belonging to her was appropriated for the street. The compensation claimed is \$500.

DUCKWORTH *v.* LOWELL.

This is an action for damages for injuries caused by a defect, as claimed, in Hale street. The defect consisted in a telephone wire stretched and suspended near the surface of the street and diagonally across it. Repairs were being made on a house near the street on which the wire had at some time been fastened. For the convenience of persons making these repairs the wire was removed from the roof and was suffered to remain suspended just above the surface of the street. The horse driven by the plaintiff was frightened by striking the wire, became unmanageable and dragged the plaintiff from the carriage and along the street. The injuries sustained were severe and the plaintiff has laid his damages at \$5,000. The Telephone Company having the care of the wire was deemed liable, provided the city should be found responsible in the first instance. Accordingly, the proper officers of that company have been requested to relieve the city of the defence. A trial may be had at the March term.

ASHWORTH *v.* LOWELL.

This is also an action for compensation for injuries received by the plaintiff, who fell on an icy sidewalk on Fenwick street in February,

1881. The injury was a broken arm. The case will probably not be tried before the September term of the Superior Court.

DANIELS *v.* LOWELL.

Mary A. Daniels fell in December last on the crossing near the corner of Gorham and Middlesex streets, receiving, as is claimed, a fracture of both bones of the left arm. The street, it is alleged, was unsafe, because of a dangerous accumulation of snow and ice at the spot where the accident occurred.

CUNNANE *v.* LOWELL.

This is still another action due to a defect in a public way. The defect was a rough and uneven accumulation of ice on the northerly side of Central street, nearly opposite Lyon street, along unenclosed land unoccupied by buildings. At a hearing before the Committee on Claims the witnesses summoned by the plaintiff testified that it was not customary to remove the snow from that side of the street, as there was neither brick nor concrete or edgestone for a sidewalk. At the time of the accident a good and sufficient sidewalk existed on the southerly side of Central street at that point free from ice and snow. The plaintiff asserted her ignorance of the condition of the portion of the street claimed to be defective until she had begun to pass over it. The injury was a severe sprain of an ankle, from which a complete recovery was claimed to be improbable. The case will be ready for trial at the March term of the Superior Court.

In the last report from this office a gratifying and unexpected diminution of cases based on personal injuries, the result of defective ways, was noted. It is somewhat surprising that during the year just ended the number of such cases has continued to diminish.

The several cases initiated during the year, growing out of claims for damages due to the exercise of the right of eminent domain in the various statute ways, it is believed, are not serious. Indeed, the compensation, as fixed by the claimants and sought by them, is small.

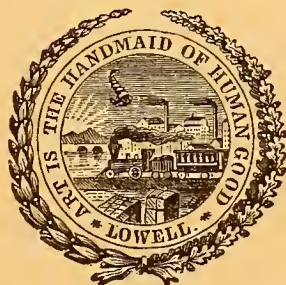
On the whole, so far as litigation is concerned, the history of the work of this office for the year has been uneventful.

Respectfully submitted.

GEO. F. LAWTON,

City Solicitor.

REPORT
OF THE
OVERSEERS OF THE POOR,
AND
ACCOMPANYING PAPERS,
OF
THE CITY OF LOWELL,
FOR THE YEAR 1882.



LOWELL, MASS.:
PRINTED BY CAMPBELL & HANSCOM, 22 CENTRAL ST.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, March 13, 1883.

Read and placed on file. Sent down.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, March 13, 1883.

Received and read.

DAVID CHASE, *Clerk*.

REPORT OF THE OVERSEERS OF THE POOR.

LOWELL, MASS., Dec. 31, 1882.

To the City Council:—

The Overseers of the Poor of the city of Lowell present their annual report, together with the reports of their Secretary, the Superintendent of the Farm, Teacher of Reform School, and Dispensary Physicians.

It appeared to the Overseers of the Poor, early in the year, that new buildings were required to accommodate the increasing numbers of the different departments ; and especially so for the purposes of classifying and separating the different classes of unfortunates who are placed under their charge,—there being no possible way of separating the pauper from the criminal and the insane, or the children of the Reform school and the pauper children, so that all classes come in contact more or less ; and for better protection of life in case of fire,—the arrangement of the buildings making it especially dangerous in that respect, being heated with some twenty stoves and furnaces, more or less accessible to insane and sentenced inmates, as well as children. The cooking and washing were also done

in the basement, under the living-rooms, making it offensive at times throughout the whole building.

The City Council, on the recommendation of the Overseers of the Poor, appropriated sixty thousand dollars for the erection of suitable buildings, and heating the same with steam. They joined the Committee on Lands and Buildings with the Overseers of the Poor, making a committee of twelve. This committee contracted for a building for insane, about one hundred and forty-four feet long and thirty-six feet wide, with ell twelve by thirty-four feet,—all three stories high, with basement under and unfinished attics above; with a two-story wing, sixty-six by twenty-six feet, for kitchen, laundry, and officers' apartments, with basement for boiler-room, and unfinished attics. They have supplied heating facilities sufficient for the whole establishment, and for cooking and laundry purposes; also a baker's oven, for baking the bread for the institutions, this having been done heretofore at different bakeries in the city.

They also contracted, at the same time, for the erection of a pauper building, with superintendent's apartments connected in form of a wing,—the main building being one hundred and twenty-eight feet long by thirty-six feet wide; wing, thirty by thirty-six feet; all three stories high, with basement underneath and unfinished attics above. All the buildings are provided with suitable fire escapes outside, and fire service on each floor, making them as secure as possible in case of fire.

The whole was contracted to be finished before the 1st of January, 1883, but they are not completed. The Insane building, with wing, is about ready for plastering; the Poor-Farm building and superintendent's apartments are the same, except one wing, which cannot be erected until the other buildings are occupied; the boilers are set, and piping done for the Insane building, and the buildings should be ready to occupy by May next, excepting the wing not yet erected. When completed they will be equal to any institutions of the kind in the state. We can then take a large number of the harmless insane, who are at state hospitals, to our own, where they can be as well cared for at a much less expense. We have some fifty now at the farm, and there is about the same number at the different state hospitals.

All the buildings, when completed, will accommodate nearly five hundred; there will be about three hundred inmates, leaving accommodations for many years to come. There will be needed, when the present buildings are completed, a small addition to the present "Men's building," and the whole finished into a hospital. The expense will be small, and with added shed room for housing carts and farm implements, no additional buildings will be necessary for many years.

It has been the aim of the Overseers to conduct the affairs of the institutions in the most economical manner consistent with humanity. The various classes of unfortunates committed to their charge, consisting of

insane, paupers, children sentenced to the Reform school, men and women sentenced to the work-house, require the judgment and discretion of the most capable minds. While the present Board have exerted themselves to do their duties faithfully, they feel that they have fallen far short of perfection in their management, and that pauperism is a problem that is capable of being worked out to produce better results. When and how much to aid, when to refuse aid, the most efficient way to aid without producing permanent paupers, and the recipients losing their self-respect, — are subjects requiring great sagacity to handle.

If there could be some institution established where work of common kinds could be furnished at low wages, where all applicants could be supplied in dull times, and paid in fuel and provisions, bought at wholesale — it would have a three-fold effect. It would supply the needy without their losing their self-respect, it would save the city from maintaining an unworthy class, and be a large saving to the city. The wood-yard has supplied this to a limited extent to the male ; but we have nothing to correspond to it for the female. A great number of those assisted would perform work if we could furnish it.

For more particular details of the workings of the institutions, we would refer you to the reports of Mr. Pinder, the efficient superintendent, and of Mr. Lang, teacher and chaplain of the Reform school, who have performed their work in a thorough and judicious

manner. The dispensary is doing much good to a class that could hardly receive the aid required in any other way. The Secretary of the Board has worked faithfully during the year, and his report will be read with interest by all.

We would especially extend our thanks to Mrs. Pinder, the energetic and very efficient matron who has contributed as much, if not more, than any other one to the good management of the institutions.

We would also thank the City Council for the liberal amount of funds furnished to carry out the needed improvements at the farm; and to all the employes connected with the institutions, for their hearty co-operation.

All of which is respectfully submitted.

GEORGE RUNELS,
MICHAEL CORBETT,
GEO. S. CUSHING,
EDWIN LAMSON,
JULIUS A. STILES,
JOHN J. DONOVAN,
WM. H. PARKER,
Overseers of the Poor.

ANNUAL REPORT
OF
SUPERINTENDENT OF INSTITUTIONS
AT THE CITY FARM.
1882.

SUPERINTENDENT'S REPORT.

OFFICE OF SUPERINTENDENT OF INSTITUTIONS AT CITY FARM, }
LOWELL, MASS., Dec. 31, 1882. }

To the Board of Overseers of the Poor, City of Lowell:

GENTLEMEN : In compliance with the rules of your Board and the requirements of an ordinance of the City Council, I most respectfully submit my annual report, in which I shall endeavor to show you the condition of the farm and buildings, and the class of people that are cared for in the various institutions under my charge.

In submitting my report for the year ending December 31, 1882, I would first of all recognize, in the general prosperity of the institutions, great reason for congratulations and just cause for gratitude ; congratulations that such pleasant relations have been sustained between the individual members of the Board and the help of the institutions ; gratitude that such a general state of good health has been enjoyed by the inmates ; that the measures adopted have so generally proved beneficial.

Limited repairs have been made upon the buildings, such as the safety and proper preservation seemed to

demand. No general repairs have been made upon the buildings, in view of the new buildings which are being built. Early in the year the attention of the Board was called to the limited quarters of the institutions, and to the increasing number of the different departments, and for the purpose of classifying and separating the different persons who are placed under my charge. The need of more extended accommodations, which has been so fully recognized by the Board and the many visitors at the institutions, calls for no further demonstrations, but stands a self-evident truth. I confidently believe that the appropriation so wisely made by the last City Council, providing the funds for necessary additions to our buildings, will be used the coming year, and the new buildings will be fitted for the special wants of the different classes.

FARM.

During the year the usual amount of labor was expended on the land, improving it, and to keep it in condition for the production of early crops. The past season has been unfavorable,—a wet spring and dry summer. The potato crop was about one-half as large as was expected, owing to the drouth we experienced in the summer. The hay crop was an average of other years. The amount of hay secured for the year was eighty-five tons. The squashes did finely, a crop to the value of four hundred and thirty-five dollars (\$435.00) being raised. The onion crop was poor,

owing to the dryness of the season. All the smaller garden vegetables yielded finely. The value of all the various kinds of fruit and vegetables harvested during the year was six thousand six hundred and ninety-eight dollars and ninety-seven cents (\$6,698.97), and the estimated value of those consumed by the inmates before harvest time was three hundred and fifty dollars (\$350.00), making the aggregate sum of all produce raised during the year to be seven thousand and forty-eight dollars and ninety-seven cents (\$7,048.97). The amount received from sales of produce from the farm for the year, was two thousand four hundred and ninety-two dollars and seventy-eight cents (\$2,492.78).

REFORM SCHOOL.

This institution, through the goodness of God, still continues in the care of William A. Lang. In his report he gives the full details of his work in the school, and there is very little for me to add. I would say, however, that I see very little need of a new school building for the boys, as the one now in use is ample for all the demands. It is now being fitted with steam, and will in the spring have city water introduced into the rooms where it is most needed,—a want it has long felt. When the new buildings are done they will have two more rooms in the reformation building for their use, making ten in all, which seems to me all they require.

I would recommend that the old building they have

talked of taking down be retained, and it seems to me that with the new buildings they will have ample room for all their immediate wants. The pauper children far exceed in numbers the sentenced ones, and it could be made into a nursery which would accommodate all ages, and could be divided into all kinds of rooms adapted to their wants, where now one room has to supply all their wants, used as sleeping, sitting and play room, which makes it almost impossible with their numbers — which is forty-six at the present time, and it varies but little through the year—to keep it healthy after it comes cold and has to be shut up ; and with the increase in numbers, the new building is hardly large enough for a nursery, as it has to accommodate all the paupers and prisoners ; and by using the old brick building — the walls are still in good condition — it would make the very best place for a nursery.

Then we need a room very much where new children coming in, who have the appearance of any kind of disease about them, could be kept until we could fully decide about them, and would prevent many contagions, such as measles, chicken-pox, whooping cough, etc.; for, as a general thing, they are very healthy, only as such diseases are brought to them. As the children all come under the general management of the almshouse, I consider it one of our first duties to look after the health of each, and do what is best for them and the interest of the city.

EXPENDITURES.

The average number of inmates supported for the year in the almshouse being one hundred and fifty-one ; in the workhouse, twenty-three ; in the house of employment for juvenile offenders, thirty-eight, — makes the whole average number supported in all the institutions to be two hundred and twelve: The average number of persons whose board was paid was seventeen, which leaves the actual average number supported in the institutions, at an expense to the city, to be one hundred and ninety-five. The amount of bills paid, for all expenses at the institutions at the city farm, was twenty-four thousand three hundred and seventy-six dollars and forty-nine cents (\$24,376.49). From this amount I deduct the following items : Seven thousand and fifty dollars, the value of three thousand and thirty provision orders, delivered as per orders of the secretary of the Overseers of the Poor ; ninety-three dollars and eight cents (\$93.08), the value of paper, bags, baskets, etc., that were used in the delivering of the same ; six hundred and six dollars (\$606), the cost of delivering the same ; two thousand and four hundred and ninety-two dollars and seventy-eight cents (\$2,492.78), the amount received from the sales of produce raised on the farm ; two thousand one hundred and sixty-eight dollars and twenty-one cents (\$2,168.21), the amount secured for the board of sundry persons in the institutions ; two hundred and

twenty-eight dollars (\$228), received for the seating of chairs ; which leaves the actual cost of the support of the city's own poor to be eleven thousand seven hundred and thirty-eight dollars and forty-two cents (\$11,738.42) or at a yearly cost of sixty dollars and twenty cents (\$60.20) each, or a weekly cost of one dollar and sixteen cents (\$1.16).

FARMING TOOLS, ETC.

The farming tools were never in better order than at present. New ones have been purchased to replace old and useless ones, and the usual repairs done to others. During the year there has been purchased a new mower, at an expense of sixty-five dollars, also one wood wagon, costing one hundred and twenty-five dollars. Two old horses were sold, and one pair bought, costing six hundred dollars. We have on hand seven horses, four cows, and eighteen pigs. During the year there were two cows killed, one cow died, eighty-six pigs raised, seventy pigs sold, and nineteen hogs killed, which weighed seven thousand two hundred and seventy-two pounds.

SMALL-POX HOSPITAL.

This building has not been opened during the year for use. The contents are in good order, and could be made ready for use at short notice. The buildings need painting very much, otherwise they are in good condition.

ALMSHOUSE STATISTICS.

The number of inmates in the almshouse January 1, 1882, was one hundred and sixty-three,— eighty-one males and eighty-two females. During the year there were admitted two hundred and twenty four,— one hundred and twenty-one males and one hundred and three females,— making the whole number for the year to be three hundred and eighty-seven,— one hundred and ninety-nine males, and one hundred and eighty-eight females. Of this number there were discharged two hundred and twenty-four,— one hundred and nine males and ninety-five females,— leaving the number of inmates remaining December 31, 1882, to be one hundred and sixty-two,— seventy-eight males and eighty-four females. The average number supported for the year was one hundred and fifty-one.

There were during the year five births in the almshouse,— three males and two females. Of those discharged in the almshouse, twenty-six died — ten males and sixteen females — of the following diseases: Consumption, three ; general debility, three ; softening of the brain, one ; chronic diarrhœa, four ; scrofula, one ; broken hip, one ; poison, one ; delirium tremens, two ; erysipelas, one ; old age, three ; typhoid fever, one ; cholera infantum, one ; fit, one ; paralysis, three.

The ages of those admitted during the year were as follows : Under one year of age, eight ; from one to five, twenty-seven ; from five to ten, twenty-five ; from

ten to twenty, fourteen ; from twenty to thirty, thirty-one ; from thirty to forty, thirty-six ; from forty to fifty, twenty-five ; from fifty to sixty, twenty-one ; from sixty to seventy, eight ; from seventy to eighty, five ; from eighty to ninety, two. The oldest person admitted was eighty nine years, and the youngest one four months.

The nativity of those admitted during the year was as follows : One hundred and thirty-seven were born in America, sixty-two were born in Ireland, four were born in Canada, eight in England, and one in Scotland.

The number of insane in the almshouse January 1, 1882, was forty-nine,— sixteen males and thirty-three females. During the year there were admitted forty-nine,— twenty-three males and twenty-six females ; making the whole number for the year to be ninety-eight,— thirty-nine males and fifty-nine females. Of this number there were discharged during the year thirty-four,— fifteen males and nineteen females ; leaving the number remaining December 31, 1882, to be fifty-one,— eighteen males and thirty-three females. Of the number of insane discharged, there were four that died. The above statistics of the insane are also included in those of the almshouse.

The number of deaths in the almshouse (twenty-six) covers all the institutions, five or six of these only living a few hours after admitted,— the whole number in the various institutions during the year being five hundred and fifty-eight. And here in connection I

have to acknowledge the prompt co-operation of Dr. Eaton, and to express my thanks for his efficient aid in the care of the inmates.

WORKHOUSE.

This institution, in connection with the almshouse, still continues to receive persons sentenced to it by the police court, for minor offences,—the majority of them being able-bodied men and women. The number of inmates January 1, 1882, was twenty,—four males and sixteen females ; the number committed during the year was fifty-nine,—twenty-six males and thirty-three females ; making the whole number to be seventy-eight,—thirty males and forty-eight females. Of this number there were discharged during the year thirty-five,—seventeen males and eighteen females ; leaving the number remaining Dec. 31, 1882, to be twenty-three,—ten males and thirteen females. The average number of persons supported for the year was twenty-three ; the number pardoned during the year was four.

The number of commitments was as follows : Two males and five females, for larceny ; sixteen males and twelve females, for drunkenness ; nine males for drunkenness, second offence ; six males for drunkenness, third offence ; six males and fourteen females, for being common drunkards ; one male and one female, for vagrancy ; one male and one female, for assault and battery. Six were committed for ten days each, one for thirty days, eleven for two months, seven for

three months, eight for four month, twenty-two for six months, two for twelve months. The longest sentence was one year ; the shortest one, ten days. There were committed, between the ages of twenty and thirty, seven ; between thirty and forty, sixteen ; between forty and fifty, sixteen ; between fifty and sixty, eleven ; between sixty and seventy, seven ; between seventy and eighty, two. The oldest person committed was seventy-five, and the youngest was twenty-two. The average age of those committed was forty-four. Of those committed, thirty-four were born in Ireland, thirteen in America, nine in England, one in Scotland, one in Wales, and one in St. Johns.

CONCLUSION.

Gentlemen of the Board: — As the one upon whom devolves the immediate charge of the institutions and the direction of the ever-varying detail of their management, I cannot close this report without thanking the members for the kind consideration of which I have been the recipient.

Respectfully submitted.

ALBERT PINDAR,
Superintendent.

ANNUAL REPORT
OF THE
TEACHER AND CHAPLAIN OF INSTITUTIONS
AT THE CITY FARM.
1882.

REPORT OF TEACHER AND CHAPLAIN.

Gentlemen of the Board of Directors of the Institutions, City Farm :—

Through the goodness of God, I am permitted to present to your Honorable Board my seventh annual report.

The school is classified as follows : —

OPENING EXERCISES.

Reading of Scripture and our Lord's Prayer.

IN ARITHMETIC.

Bradbury's Eaton's Practical Arithmetic	7
Thompson's Intellectual Arithmetic, first class	5
Thompson's Intellectual Arithmetic, second class	11
Thompson's Intellectual Arithmetic, third class	14
Primary Arithmetic, first class	11
Primary Arithmetic, second class	10
One class taught without text-books	16

IN GEOGRAPHY.

Guyot's New Intermediate, Mass. Edition	13
Guyot's Elementary, Primary classes	22

IN SPELLING.

Worcester's New Pronouncing Spelling Book, first class . .	6
Worcester's New Prononncing Spelling Book, second class .	10

Franklin Third Reader, spelling and defining	15
Franklin Second Reader, spelling and defining	11
Franklin Primer, four classes	21

IN WRITING.

Number using Writing books	35
Have taught to write their name on slate	19

IN HISTORY.

Anderson's History of the United States, first class	4
Anderson's History of the United States, second class	9

IN READING.

Use History for Reader, two classes	13
Franklin Fourth Reader	14
Franklin Third Reader	14
Franklin Second Reader	11
Franklin Primer, four classes	21
Object lessons, two classes	15
Number attending school Jan. 1, 1882	74
Number attending school at the present time	76
Average monthly attendance for the year	73½
Number instructed during the year	125
Number committed during year	53
Number discharged during the year	55
Number pardoned during the year	17
Average age on admission	11½
Highest number for any one month, March	82
Lowest number for any one month, April	65
Absconded, none ; died, none ; in cell, none.	

Number committed from the following places : —

Lowell	38
Chelsea	4

Somerville	1
Fitchburg	2
Marlborough	1
Watertown	1
Woburn	1
Waltham	2
Malden	1
Winchester	1
Arlington	1
Number committed for first term	41
Number committed for second term	10
Number committed for third term	2
Pupils in the school not under sentence	43
Males	29
Females	14
Pupils in the school under sentence	33
Males	29
Females	4
Were committed for the following offences : —	
Truancy	7
Habitual truant	28
Wandering in streets	5
Unlawfully driving team	4
Stubbornness	2
Larceny	7

Of the number committed, 49 were born in the United States, 1 in England, 2 in New Brunswick, 1 unknown.

Each day has brought its duties, cares, and perplexities ; but I have always found God's grace sufficient, and his ways, ways of pleasantness, and his paths those of peace.

The discipline of a Reform School must of necessity

be strict, but I trust that justice has always been tempered with mercy. I have done what I could to teach my pupils to act, in all their dealings with their fellow men, from principle, and not from policy. I have consulted Superintendent Morrill and my school committee in regard to discipline and lines of study to be pursued. To the Superintendent, especially, I am greatly indebted for valuable advice and counsel.

At a regular meeting of the Board of Overseers, in April, by motion of Mr. Lamson, seconded by Mr. Donovan, I was granted permission, by a unanimous vote of the Board, to take my male classes in history and geography one half day in each week to walks through the fields and woodlands, teaching them the names of as many of our forest trees, grasses, plants, wild flowers, birds, and insects as possible, believing that taking the works of nature with the lessons learned from our text-books, the better would be laid the foundation for future knowledge. In proof of the wisdom of the plan, I found by examination that scarcely one in the whole school could give the names of the very commonest of our forest trees, to say nothing of our beautiful grasses, wild flowers, birds and insects. I can assure the gentlemen of the Board that the experiment was entered into with great zest by the boys, who were greatly surprised and interested in finding so much to learn outside of their books. I found the trips quite successful, combining healthful exercise and pleasure with an opportunity to obtain

a kind of knowledge that will no doubt be a source of much gratification to them in the years to come. I bespeak for the school its continuance.

The largest religious liberty is granted to all classes. Divine service has been held in the chapel regularly during the year. Many of the inmates have been constant in attendance. I have changed the Sabbath School hour from three o'clock P. M. to the hours from eight to ten A. M., and find that it works to the advantage of both teacher and scholars. Catechisms have been furnished to the Catholic children by their friends, also reading matter to some extent.

We are indebted to Mr. Campbell, of the *Morning Times*, for a large number of papers and magazines, which were read by the boys with great avidity.

I wish to call the attention of the Board to the fact that, as the school law now stands, no child can have a certificate entitling him to work until he has attended school twenty weeks. This is just as it should be for our public schools, but it seems to me a little hard for some of our poor boys and girls in an institution like ours. I think every week ought to be counted for their benefit, as they are receiving instruction every day in the year, whether in school or out. Cannot the two boards arrange this matter by giving the teacher a right to grant such certificates?

The older boys have cane-seated four thousand one hundred and fifty-five chairs during the year. This work has all been done before and after school, with

but few exceptions. All our boys who were able to work were employed during the long vacation in weeding the onion, beet, carrot and parsnip crops, gathering fruit and vegetables for market, etc.

Through the summer months quite a large number of our boys were greatly afflicted with sore eyes. At the present time we have but few cases, and those are of a mild form. As we have had four cases of sickness requiring the removal of the patients to other quarters, I would suggest to your honorable body that some room in our building be fitted up with single beds and modern conveniences, for the care of the sick.

I think the city fortunate in securing the services of Mr. Sweet as my assistant, from the fact that he is not only a good mechanic, but a gentleman of pure conversation and ready tact,—qualities indispensable in an officer employed in an institution for the reformation of juvenile offenders. The less friction we have and the more harmony, the greater will be our success for good.

In my judgment, the time has come in the history of the school when a separation of paupers and juvenile offenders is imperatively demanded ; and, as it cannot be done with our present accommodations, neither will the new building have suitable quarters for forty or more children, I would respectfully suggest to the gentlemen of the Board that the building now used as our reformatory be entirely devoted to the use of the pauper children, and a Reform School building, with

ample grounds for recreation, be erected in the near future on land lately bought of H. A. and S. A. Coburn.

Through the kindness and courtesy of the directors, the boys and girls of all the institutions were entertained in fine style at the annual strawberry festival in June. Allow, us gentlemen, to thank you all most heartily.

The Hon. William A. Russell has laid us under renewed obligations in presenting to the Reform School library three volumes of the "Official Records of our Civil War."

Will his Honor the Mayor receive my heartfelt thanks for the valuable aid and sympathy I have always received at his hands.

For the enlarged authority granted me by the boards of 1881 and 1882, in the management of my boys, and for acts of kindness from individual members, I am truly thankful.

Respectfully submitted.

WILLIAM A. LANG,

Teacher and Chaplain.

ANNUAL REPORT
OF THE
DISPENSARY PHYSICIANS,
OF
THE CITY OF LOWELL.
1882.

REPORT OF THE DISPENSARY PHYSICIANS.

FREE DISPENSARY ROOMS, LOWELL, MASS., Feb., 1883.

To the Overseers of the Poor:—

GENTLEMEN :—The Dispensary physicians would respectfully present to you their annual report.

The work done in this institution is done in so quiet a manner that few aside from the patients who are treated, the physicians who attend to their daily duties, and your Honorable Board, who have general supervision over the Dispensary,—few besides these know anything about it. That not a small amount of good is accomplished, we feel certain. Now any one who is sick, but whose circumstances are such that he cannot afford to pay for medical services, can find a physician in attendance here every day, whose prescription will be carefully and accurately filled before he leaves the building ; or, if the patient is unable to come here, one of the ward physicians attends to his case, and his prescription is honored here.

There is another class to whom the Dispensary is open, and the fact that it is open to them should be more generally known. There are many poor people

who are unable to pay for the services of a physician, who are unwilling to be treated by the ward physician. They have a family physician of their own, whom they never pay, for they have no money. I do not refer to imposters and *dead beats*, properly so called, but to deserving charity cases. Every physician in this city and elsewhere has more or less of such cases, and he is willing to devote a certain part of his time to them. One might say that they ought to apply to the ward physicians. But the fact is they do not ; they do not need to. For some reason or other, perhaps because they are really deserving, they have a friend in some physician who is willing to attend to them without charge ; but he cannot supply them with medicine, and they cannot pay for it themselves. The attending physician can write the word "Dispensary" across the back of the prescription, and the patient can take it to the clerk. If a physician is in attendance here, he will countersign it if in his opinion it is a proper one. If no physician is in attendance, the clerk can direct the patient to any one of the twelve dispensary physicians for his countersign. In this way much good is accomplished every year. Much more could be done if this were more generally known.

In the past year the drug clerk has put up 4,027 prescriptions. There were treated here 820 patients. Of these, the diagnosis was given in 695 cases. The following table shows the principal diseases treated:

Names of Disease.	No. of Cases.
Bronchitis	110
Debility	78
Injury	48
Ulcers	32
Dyspepsia	32
Rheumatism	28
Phthisis	26
Syphilis	24
Scrofula	18
Indigestion	16
Constipation	16
Neuralgia	14
Anæmia	13
Heart Disease	13
Eczæma	12
Conjunctivitis	9
Asthma	9
Pleurisy	9
Abscess	6
Cholera Morbus	6
Epilepsy	5
Felon	5
Amenorrhœa	5
Incontinence	5
Hemorrhoids	4
Varicose Veins	4
Erythema	4
Pediculi	4
Teeth Extracted	4
Laryngitis	4
Paralysis	3
Cholera Infantum	3
Alcoholism	3

Names of Disease.	No. of Cases.
Otorrhœa	3
Erysipelas	3
Hysteria	3
Leucorrhœa	2
Marasmus	2
Prolapsi Uteri	2
Pertussis	2
Hernia	2

We would like to say a word with reference to the ward physicians, who, although not necessarily connected with this institution, are, as a matter of fact, all members of our Board, and the system they represent was an outgrowth from this Dispensary. We think that better work is being done by the ward physicians than was ever done by any one physician. That is in the nature of things. The position the city government of Lowell has always taken in this matter has been that they will not allow enough for this work to pay for the whole time of one physician. No physician could afford to give his whole time for \$700 per year,—the highest salary, I think, ever paid a city physician. For \$2,000 a year a physician could, perhaps, make an agreement to have no private practice. In this case the city patients might be well cared for. But if the physician is obliged to attend to his own patients in addition to the city's, his own will be attended to first ; and if he has too many city patients, some of them must be neglected. A physician can

attend to his own practice, and also to a small number of city patients, unless, indeed, he is more driven by his practice than most physicians are.

When the change was made in the duties of the city physician, limiting his work to the care of the almshouse and his official duties as a member of the Board of Health, the City Council, in giving the sick poor of Lowell six physicians instead of one, certainly raised the quality of the service. They should have been willing to slightly, if not correspondingly, raise the expense. The ward physicians can attend to their private and official duties, without letting the one interfere with the other. And they are willing to do it for a very small recompense, which their pay would certainly be were it doubled.

Mr. Mixer, the efficient and faithful drug clerk, has given the most complete satisfaction to every member of the Board.

In closing we would assure your Honorable Board that in our opinion this institution is supplying a long felt want, and that good work is being done here every year.

We would extend our thanks to Messrs. Cushing, Stiles, and Donovan, members of the Dispensary Committee of your Board, for the uniform courtesy and attention they have given to the wants and suggestions of our Board.

Respectfully submitted.

L. HUNTRESS, JR.,

Secretary.

DISPENSARY PHYSICIANS.

LOWELL, MASS., January 31, 1883.

Hon. J. J. Donovan, Mayor:—

DEAR SIR:—At the regular meeting of the Middlesex North District Medical Society, held this day, the following members of the society were nominated as Dispensary physicians for the ensuing year :—

DR. NATHAN ALLEN,
DR. H. J. SMITH,
DR. C. A. VILES,
DR. W. G. EATON, JR.,
DR. LEONARD HUNTRESS, JR.,
DR. J. J. COLTON,
DR. C. P. SPAULDING,
DR. E. T. ALDRICH,
DR. C. H. RICKER,
DR. H. P. PERKINS,
DR. D. N. PATTERSON,
DR. W. H. McOWEN.

Yours truly,

GEORGE C. OSGOOD,

Secretary.

REPORT OF THE SECRETARY
OF THE
BOARD OF OVERSEERS OF THE POOR
OF THE
CITY OF LOWELL.
1882.

REPORT OF THE SECRETARY.

OFFICE OF OVERSEERS OF THE POOR, }
LOWELL, MASS., Jan. 1, 1883. }

To the Board of Overseers of the Poor:—

GENTLEMEN :—The report that I have to make to you is that I have tried hard to do my duty to the city and to the poor. All of our citizens know well the hard struggle that our poor have in living in these times. There is no need of my making any comments or excuses. We, the citizens, must not expect that our bills in this department will be small. What can we do but aid,—not in a loose and indiscriminate way, but after a careful investigation, in all cases where application for aid is made? The number of husbands who desert their wives and children is astonishing to any candid mind.

We see many ways that our poor people are aided, and not at the expense of the city, but coming from our people,—churches, associated charities, grand armies, and sisters of charity. I know well that we have in Lowell many noble and kind-hearted people, who seem willing that other people should live, as well as themselves.

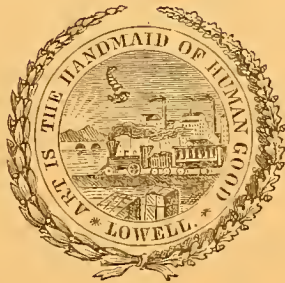
We are having many calls for aid at the present time. During the year 1882 there have been 788 families visited at their places of residence, including 73 families having settlements on other cities and towns, and 42 families having no settlement in the state ; 2522 persons have been aided in the city ; 219 persons aided on other cities and towns ; and 138 persons aided on the state.

The expense to the city has been	\$10,043 70
Expense to other cities and towns	1,607 97
Expense to the state	1,090 35
Persons sent to the state almshouse	127
Permits for burial of paupers	97
Persons committed to state lunatic hospitals	9
Official letters mailed	457
Official letters and notices received	398
Persons committed to House of Correction	204
Orders on Ward physicians	434
Ward 1	147
Ward 2	59
Ward 3	65
Ward 4	33
Ward 5	50
Ward 6	79

Gentlemen : I wish to thank you for your assistance and kindness to me at all times the past year.

L. F. JEWELL,
Secretary.

ANNUAL REPORT
OF THE
SUPERINTENDENT OF STREETS
OF THE
CITY OF LOWELL
FOR THE YEAR 1882.



LOWELL:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1883.

CITY OF LOWELL.



IN BOARD OF ALDERMEN, January 23, 1883.

Read and sent to the Common Council.

DAVID W. O'BRIEN, *City Clerk.*



IN COMMON COUNCIL, January 23, 1883.

Received and read.

DAVID CHASE, *Clerk.*

REPORT.

To the Honorable City Council:

GENTLEMEN:—The Report of the Department of Roads and Bridges, containing a general statement of expenditure, also details of some of the more important work done, is herewith submitted for the year 1882.

Appropriated in 1882.....	\$85,000 00	
Received on loan.....	40,000 00	
Received from sundry persons.....	31,902 21	
		<hr/>
		\$156,902 21
*Expenditures for the year 1882.....	\$142,606 55	
Transferred to appropriation for school-		
houses.....	3,121 13	
		<hr/>
		145,727 68
		<hr/>
Balance Jan. 1, 1883.....	\$11,174 53	
		<hr/>

*From this deduct—

Amount received for sidewalks, material, labor, etc.....	\$17,212 40	
Amount paid for land, etc., taken for laying out and widening streets.....	3,117 39	
Amount of extra expense caused by the burn- ing of Central Bridge.....	11,572 42	
		<u>\$31,902 21</u>
Making the expenditure for ordinary street purposes....	\$110,704 34	<u><u></u></u>

STREETS LAID OUT AND ACCEPTED IN 1882.

STREETS.	BETWEEN WHAT STREETS.
Belmont Ave.....	Whitman and Wyman.
Broadway.....	Suffolk and Western Canal.
Mansur.....	Fairmount and Belmont Avenue.
Methuen.....	Seventh and Dracut Line (grade established).
Pine.....	Westford and Baldwin.
South Whipple...	Lawrence southerly.
West.....	Coburn and River.
Whitman.....	Fairmount and Belmont Avenue.

PAVING.

The following shows the amount of paving laid during the year.

STREETS.	BETWEEN WHAT STREETS.	SQ. YDS.
Gorham....	Engine House to B. & L. R. R.....	3380 $\frac{7}{10}$
Hurd.....	Central and Warren (wood paving removed).	1600
Middlesex..	Appleton boarding houses and Tyng's block.	1391 $\frac{7}{10}$
“	N. & L. R. R. and McIntire.....	3132 $\frac{8}{10}$
Merrimaek	Coneord River bridge and Post Office.....	2455 $\frac{1}{10}$
Market....	Near Jefferson and Western Canal.....	707 $\frac{1}{10}$
Salem.....	Near Bowers and Pawtucket.....	2292
Total.....		14,959 $\frac{4}{10}$

All the above paving was laid with small granite blocks, some of which were broken from old stone.

GUTTER PAVING.

About one thousand four hundred thirty square yards of cobble paving have been laid in the gutters of the following-named streets :

Broadway,
Twelfth,
Fremont,

Methuen,
Worthen,
Loring.

REPORT OF THE STONE CROSSINGS.

Twenty-six granite crossings have been laid on the following-named streets :

Andover,	Appleton,
Broadway,	Branch,
Bridge,	Fayette,
Chelmsford,	Gorham,
Grove,	Methuen,
Market,	Middle,
Salem,	Worthen,
Willie,	Whipple.

STREETS GRADED.

STREETS.	BETWEEN WHAT STREETS.
Austin.....	Merrimack and Ford.
Bridge.....	Poor Farm Road and Town Line.
Beacon.....	Tenth and Methuen.
Bowers.....	Fletcher and Mount Vernon.
Chelmsford...	Howard and Liberty.
“	Liberty and Powell.
Chapel.....	Elm and Walnut.
Franklin.....	Willie and Fletcher.
Ford.....	Cabot and James.
Gorham.....	Lowell & Andover R. R. and Spencer.
Grand.....	Middlesex and Westford.
Hale.....	Grand and Cambridge.
Lincoln.....	Tanner and near Hale.

STREETS.	BETWEEN WHAT STREETS.
Loring	Branch and Westford.
Lewis	Broadway and Jefferson.
London	Gorham and West.
Middlesex	Ferrin's house and Black Brook.
Manchester	From Gorham westerly.
Mason	Powell and School.
Mansur	Fairmount and Belmont Ave.
Maple	Gorham and West.
New	Crosby and Lyon.
Riverside	Brook near Willard's to Town Line.
School	Bowers and Cross.
Stackpole	Alder and E. Merrimack.
“	E. Merrimack and Wilson's Bridge.
So. Canton	Westford and Princeton.
Twelfth	Wachusett and Methuen.
Varney	Mount Vernon and School.
Willie	Fletcher and Cross.
Wachusett	Twelfth and Thirteenth.
Westford	Loring and Stevens,
Walker	Broadway and Pawtucket.
West	Maple and Lincoln.

REPORT OF THE MACADAMIZING.

STREETS.	BETWEEN WHAT STREETS.
Adams	Salem and School of Sisters of Notre Dame.
Broadway . . .	Willie and Pawtucket Canal.
Bridge	Hampshire and Poor Farm Road.
Cabot	Market and Merrimack.
Dutton	Railroad Ave. and Willie.
Fletcher	Rock and Lagrange.
“	Broadway and Varney.
Gorham	B. & L. R. R. and Fair Grounds.
Merrimack . . .	Cabot and Spalding.
Rock	Fletcher and Willie.
Worthen	Merrimack and Market.
William	From Central street 100 feet easterly.

BRIDGES.

Central Bridge was burned August 5th. The removal of the debris and building of temporary bridges has cost this department eleven thousand five hundred and seventy-two dollars and forty-two cents, as shown in the general statement of expenditure.

The bridge over Concord River at East Merrimack street is getting old, and in my judgment will not be safe longer than the present year. I would recommend that an iron bridge be built in its place the coming Summer.

The bridge on Lawrence street over the Concord River ought to be entirely rebuilt the present year. The piers, which are of very poor stone and in a tumble-down condition, should also be rebuilt.

Wilder, Moody, Market and Worthen street bridges have been replanked.

East Merrimack street and Pawtucket bridge have been repaired.

SIDEWALKS.

STREETS.	BETWEEN WHAT STREETS.	LINEAL FT. OF EDGESTONE.	SQ. YDS. OF CONCRETE.
Bridge.....	Opposite premises of N. G. Morse		82.1
Bowers.....	Salem and Mt. Vernon, north- erly side	940	324.3
Beach.....	Sixth and land of J. M. G. Parker, westerly side	488.5	344.6
Beacon and Eleventh.	Opp. premises of T. S. Cobb	208.6	129.4
Chapel.....	Union and Charles, westerly side	201.8	132.6
Fremont.. ..	Near Sixth, easterly side..	200.4	
Fletcher	Opp. Old Ladies' Home....	169.6	
Grand.....	Opp. Wilsons', westerly side.	124.2	75.4
Gorham.....	Engine House and Maple St., westerly side	944.2	
Grove	Loring and Wilder, souther- ly side	861.5	600.8
Jewett	P. Donahoe's house and West 4th St., easterly side..	258.4	167.4
Lane.....	From Westford street, south- erly, easterly side		155.4
Methuen	Near Tenth, westerly side..	112 2	
Mansur.....	Fairmount and land of G. F. Scribner, southerly side..	240.8	131.9
Pawtucket...	Near School and Williams' boat house, northerly side.	440	334.8
Read.....	From Second St. southerly, westerly side	154.1	126

STREETS.	BETWEEN WHAT STREETS.	LINEAL FT. OF EDGESTONE.	SQ. YDS. OF CONCRETE.
Rock.....	School and Willie, southerly side	898.8	638.2
Somerset....	School and Queen.....	243.2	
Second.....	From Read street westerly, southerly side	295.5	177.4
Sixth.....	Near Fremont, northerly side	45.9	
Twelfth.....	Bridge and Methuen, north- erly side.....	850	
Westford....	Pine and Wilder, southerly side.....		546.2
Westford.....	Opposite the premises of E. A. Bigelow.....	59.5	43.2
Walker	Pawtucket and Broadway, westerly side.....	905	732.6
West Fourth.	Near Jewett, northerly side.	46.3	22.9
Wamesit.....	Lawrence and Hosford Sq..	381.5	250.6
Westford....	Wilder and Robbins.....	630.6	
Total.....		9700.6	5015.8

PERSONAL PROPERTY.

The following is a schedule of personal property in my care Jan. 1, 1883, belonging to the Appropriation for Roads and Bridges :

1 engine	\$ 800 00
Blacksmiths' tools and stock.....	600 00
12 tons hay.....	240 00
7 tons carrots.....	84 00
4 tons straw.....	68 00
100 bushels oats.....	58 00
10 bags meal.....	15 00
5 street rakes.....	2 50
7 forks.....	7 00
48 horses.....	8625 00
17 sets double harnesses.....	600 00
16 sets single harnesses.....	300 00
3 sets lead harnesses.....	18 00
32 feed baskets.....	16 00
98 currycombs and brushes.....	40 00
54 collars.....	100 00
51 halters	20 00
100 blankets.....	250 00
51 surcingles	20 00
1 horse-sling	8 00
8 horse covers.....	32 00
2 buffalo robes.....	12 00
1 boiler	2 00
16 double carts.....	1280 00
12 single carts.....	480 00
1 watering cart.....	125 00
4 wood wagons.....	160 00
3 pauper wagons.....	175 00
2 lumber wagons.....	150 00
5 single wagons.....	200 00
<i>Amount carried forward</i>	<u>\$14,487 50</u>

<i>Amount brought forward</i>	\$14,487 50
1 committee wagon.....	150 00
14 double wood sleds.....	700 00
3 dump sleds.....	225 00
2 single sleighs.....	50 00
4 pauper sleighs.....	140 00
2 stone truck drags.....	125 00
10 wheelbarrows.....	30 00
3400 feet oak plank.....	136 00
72 shovels.....	64 00
1 stone roller.....	75 00
1 grindstone.....	5 00
1 boring machine.....	5 00
2 sand screens.....	5 00
3 gravel rakes.....	3 00
3 augers.....	2 25
3 anvils.....	24 00
1 street sweeper.....	100 00
1 coal screen.....	4 00
650 feet edgestone.....	253 50
22 stone bounds.....	11 00
3 stoves.....	50 00
3 hand saws.....	2 50
4 wood saws.....	4 00
63 snow shovels.....	63 00
41 hoes.....	30 75
5 corn brooms.....	2 00
6 street brooms.....	3 00
62 lanterns.....	62 00
16 oil cans.....	8 00
10 pails.....	10 00
2 long levels.....	6 50
60 picks.....	60 00
10 striking hammers.....	20 00
<i>Amount carried forward</i>	<u>\$16,918 00</u>

<i>Amount brought forward</i>	\$16,918 00
14 face hammers.....	42 00
5 paving hammers.....	10 00
2 hand hammers.....	2 00
3 stone hammers.....	1 50
2 brick hammers.....	1 50
655 lbs. steel drills.....	98 25
12 plug drills.....	6 00
30 crowbars.....	60 00
4 axes.....	4 00
2 adzes.....	2 00
2 jack screws.....	6 00
3 plows.....	15 00
2 street serapers.....	12 00
2 scythes.....	2 00
100 stake chains.....	50 00
12 draught chains.....	48 00
36 hammer handles.....	3 60
1 stone crusher.....	750 00
1 stone crusher building.....	450 00
7 street brooms.....	3 50
50 bundles broom stuff.....	3 50
2 stone wheelbarrows.....	3 00
1 platform scale.....	8 00
1 pair draught wheels.....	10 00
3 tubs.....	0 75
6 snow serapers.....	24 00
1 snow plow.....	15 00
11 tool chests.....	60 00
3 coal hods.....	2 00
3 cart bodies.....	50 00
6 axe handles.....	1 00
10 gallons blue paint.....	10 00
50 street signs.....	12 50
<i>Amount carried forward</i>	<u>\$18,685 10</u>

<i>Amount brought forward</i>	\$18,685 10
300 feet oak lumber (prepared for carts).....	18 00
4000 feet spruce lumber.....	68 00
1 clock.....	6 00
6 steel wedges.....	1 70
3 coal shovels.....	3 00
16 stonecutters' points.....	4 00
3 trowels.....	1 50
4 paving mauls.....	20 00
2 cross-cut saws.....	6 00
3 ladders.....	4 00
1 hand cart.....	5 00
5 long handled shovels.....	5 00
3 wash tubs.....	6 00
2 chairs.....	3 00
1 boom derrick and rigging.....	100 00
1 writing desk.....	12 00
5 powder cans.....	5 00
5 tamping bars.....	4 50
1 hay cutter.....	7 09
182 feet wide flagging.....	97 74
500 lbs. mineral salt.....	5 00
1 watch tackle.....	5 00
1500 yards paving stone.....	2400 00
1 set corner stone.....	6 00
1 derrick and rigging.....	25 00
1 electric battery.....	25 00
5 spirit levels.....	10 00
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	\$21,537 54

SEWERS.

The following table shows the sewers built during the year, their length, size in inches, material, date when begun and when finished :

STREETS.	L'gth.	Size in Inches.	Material.	Begun.	Finished.
Adams, . . .	236	12	Akron Pipe.	July 19.	July 24.
Belmont, . . .	774	12	Akron Pipe.	Sept. 25.	Oct. 25.
Bridge, . . .	169	37x25 and 33x22	Brick and Akron Pipe.	June 2.	June 22.
Bachelder's Place, .	187	10	Akron Pipe.	May 26.	May 27.
Central, . . .	156	12	Akron Pipe.	June 5.	June 8.
Canton, . . .	455	12	Akron Pipe.	May 19.	May 25.
Dutton, . . .	492	15	Akron Pipe.	Aug. 29.	Sept. 28.
Eleventh, . . .	914	12	Akron Pipe.	Sept. 13.	Sept. 29.
East Merrimack, .	878	12	Akron Pipe.	April 3.	May 19.
Frye, . . .	286	12	Akron Pipe.	Oct. 2.	Oct. 9.
Fletcher, . . .	200	12	Akron Pipe.	Sept. 1.	Sept. 11.
Gorham, . . .	97	12	Akron Pipe.	Oct. 24.	Oct. 29.
George and Church,	730	15 and 12	Akron Pipe.	Aug. 28.	Oct. 16.

SEWERS.

STREETS.	L'gth.	Size in Inches.	Material.	Begun.	Finished.
Hastings, . . .	466	12	Akron Pipe.	Dec. 26, '81	Jan. 18.
Lombard, . . .	244	10	Akron Pipe.	Aug. 1.	Aug. 8.
Lawrence and South Whipple, . . .	836	15 and 12	Akron Pipe.	June 28.	Aug. 2.
Liberty, . . .	225	12	Akron Pipe.	April 25.	May 1.
Liberty and Barclay,	786	12	Akron Pipe.	April 3.	May 18.
Liberty and Pine, .	919	35x23	Brick.	May 29.	July 27
Liberty, . . .	810	42x28	Brick.	Dec. 8, '82.	Feb. 24.
Methuen, . . .	983	12	Akron Pipe.	June 9.	June 27.
Mansur, . . .	747	12	Akron Pipe.	July 27,	Aug. 5.
Middle, . . .	613	24x16	Brick.	May 1.	June 5.
New Fletcher and Powell, . . .	101	45x30	Brick.	Aug. 15, '82.	Jan. 18.
Pond, . . .	149	12	Akron Pipe.	May 22.	May 24.
South Whipple, .	101	12	Akron Pipe.	Dec. 3.	Unfi'li'd.
Stackpole, . . .	1424	12	Akron Pipe.	July 10.	July 26.
South Highland, .	447	12	Akron Pipe.	April 4.	April 24.
Twelfth and Wachusett, . . .	661	15 and 12	Akron Pipe.	June 20.	July 8.
Whiting, . . .	418	12	Akron Pipe.	Nov. 27.	Dec. 9.
West Sixth, . . .	103	12	Akron Pipe.	June 26.	June 27.
Willie Avenue, .	243	12	Akron Pipe.	May 25.	May 26.
Westford, . . .	249	15	Akron Pipe.	April 18.	April 24.
West, . . .	1540	66 and 60	Brick.	Aug. 21.	Unfi'li'd.
Intercepting Sewer,	880	90 and 84	Brick.	Oct. 7.	Unfi'li'd.

The total number of feet laid during the year is eighteen thousand five hundred and fifteen (18,515), which equal three and one-half ($3\frac{1}{2}$) miles.

PERSONAL PROPERTY.

The following is a schedule of the personal property in my care Jan. 1, 1883, belonging to the appropriations for sewers and drains :

189 shovels.....	\$141 75
100 picks.....	100 00
18 pick handles.....	3 60
61 striking hammers.....	85 40
21 stone hammers.....	58 80
5 nail hammers.....	5 00
3 blacksmith hammers.....	4 50
27 crowbars.....	54 00
10 chains.....	20 00
200 feet line.....	50
8 jack screws.....	56 00
5 sets shears poles and rigging.....	200 00
22 tag ropes.....	22 00
31 pails.....	15 50
16 jet dippers.....	16 00
10 mauls.....	10 00
8 iron sheeting caps.....	8 00
3,374 pounds steel drills.....	506 10
15 dirt spoons.....	3 75
16 ledge guns.....	8 00
4 brooms.....	1 00
27 lanterns.....	27 00
27 wheelbarrows.....	81 00
730 pounds canvas.....	53 00
1 scow.....	75 00
1 dory.....	9 00
1 pair oars.....	1 50
6 boat hooks.....	3 00
3 forges.....	75 00
3 anvils.....	24 00
<i>Amount carried forward.....</i>	<i>\$1,668 40</i>

<i>Amount brought forward</i>	\$1,668 40
1 vice	5 00
7 pairs blacksmith tongs.....	3 50
3 pairs pipe tongs	3 00
4 sewer pumps.....	28 00
1 force pump and hose.....	10 00
4 hydrant wrenches	1 00
2 water gates	2 00
8 monkey wrenches.....	6 00
1 socket wrench.....	75
2 S wrenches.....	50
4 hydrant regulators.....	12 00
6 hoes	4 50
2 rakes.....	1 00
4 trowels	4 00
3 tape measures	3 00
11 oil cans	5 50
3 electric batteries.....	75 00
20 feet 6-inch Akron pipe.....	2 00
3 spirit levels.....	6 00
2 mallets	50
1 chisel	1 00
7 hand saws.....	7 00
4 axes.....	3 00
3 augers.....	3 00
2 adzes.....	2 00
20 lbs. powder.....	6 00
1 powder tunnel.....	10
2 powder cans.....	50
125 lbs. nails and spikes.....	3 75
1 steam derrick and rigging.....	400 00
1 double drum hoisting engine.....	1450 00
3 dump boxes.....	30 00
5 tool boxes.....	40 00
<i>Amount carried forward</i>	<u>\$3,788 00</u>

<i>Amount brought forward</i>	\$ 3,788 00
5 shanties.....	125 00
5,000 feet lumber.....	40 00
350 feet hose.....	45 00
1 pumping engine.....	750 00
1 hoisting engine.....	725 00
1 steam boiler	150 00
1 steam derrick and rigging..	350 00
1 steam drill.....	450 00
70 feet inch steam pipe covered.....	20 00
50 feet covered hose.....	50 00
150 pounds iron.....	6 00
33 feet chain 1-2.....	3 30
2 galvanized iron pails.....	2 00
1 horse and lever.....	7 00
5 derriek tubs.....	50 00
3 hogsheads	6 00
1 cross-cut saw.....	3 50
1 wood saw.....	1 25
1 bit stock.....	1 25
1 dualin heater.....	2 00
1 farmer's boiler.....	25 00
1 set blocks and falls.....	10 00
2 grapnels.....	2 00
6 dirt pumps.....	6 00
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	\$6,618 30

RECOMMENDATIONS.

I would recommend that Bridge street, from Central Bridge to Sixth street, be paved with small granite blocks. The wood paving is nearly worn out and is in very bad condition.

Also, that Branch street be paved with small granite blocks, *from Queen street to School street.*

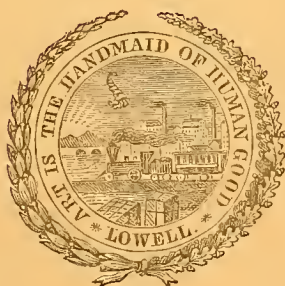
In closing, allow me to express my thanks to the several Committees with which I have been connected, for their good will and assistance rendered me in the discharge of my duties during the past year.

Most respectfully submitted.

JOHN C. WOODWARD,

Superintendent of Streets.

ANNUAL REPORT
OF THE
SUPERINTENDENT PUBLIC BUILDINGS
OF THE
CITY OF LOWELL
FOR THE YEAR 1882.



LOWELL:
HARRINGTON BRO'S, PRINTERS, SUN OFFICE.
1883.

CITY OF LOWELL.



IN BOARD OF ALDERMEN, January 25, 1883.

Read and sent down.

DAVID W. O'BRIEN, *City Clerk.*



IN COMMON COUNCIL, January 25, 1883.

Received and read.

DAVID CHASE, *Clerk.*

REPORT.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS, }
January 1, 1883. }

To the City Council of Lowell:

GENTLEMEN—In compliance with an ordinance requiring the Superintendent of Public Buildings to report annually, in the month of January, the condition of the buildings belonging to the City, and the expenditures thereon, I hereby submit the following report:

PUBLIC BUILDINGS.

Appropriation.....	\$15,000 00
Receipts.....	3,597 47
Total.....	<u>\$18,597 47</u>
Expenditures.....	\$11,657 13
Transfer.....	5,708 15
	<u>\$17,365 28</u>
Balance January, 1883.....	\$1,232 19

EXPENDED AS FOLLOWS:

Boston & Lowell R. R. Co., additional insurance on Huntington Hall.....	\$ 95 62
Sewer assessment on W. Clark street.....	48 54
H. R. Barker, piping at Huntington Hall and Government building.....	282 25
F. W. Proctor, plumbing.....	301 34
F. Taylor, hardware.....	87 62
M. C. Pratt & Co., lumber.....	365 82
A. L. Brooks & Co., lumber.....	32 41
Whitney & Tibbetts, lumber.....	605 03
Howes & Burnham, lumber.....	72 45
O. Allen & Son, lumber.....	3 75
Scannell & Wholey, fire escapes H. Hall.....	290 00
Scannell & Wholey, repairing and inspecting boilers.....	26 80
Eureka Ventilating Co., ventilator Government B'd.....	42 00
O. E. Averill, blacksmithing.....	55 23
T. R. Garity, plumbing.....	101 21
T. Costello, plumbing.....	36 21
J. Gilchrist, plumbing.....	30 40
Roads and Bridges, shoveling snow.....	63 45
M. V. B. Libbey, shoeing horse.....	31 15
H. B. Shattuck, hardware.....	67 12
C. A. Kendall, drain pipe.....	4 45
William Kittredge, coal.....	35 31
O. A. Simpson, teaming.....	15 00
C. B. Coburn & Co., paint, oil, glass, etc.....	234 51
D. Cushing & Co., repairing roofing.....	7 20
H. A. Fielding, hardware.....	18 82
S. G. Mack & Co., sheet iron.....	11 51
D. M. Prescott, plastering.....	63 00
Staples Brothers, drain pipe.....	29 40
Fairban M'fg Co., castings.....	41 64
E. Sanborn, repairing wagon.....	64 36
<i>Amount carried forward</i>	<u>\$3,163 60</u>

<i>Amount brought forward</i>	\$3,163 60
H. H. Wilder, ash hods.....	34 02
S. D. Butterworth, plastering at Huntington Hall.....	139 50
Adams & Co., repairing chair.....	40
E. W. Coburn, plastering.....	8 26
C. E. Adams, hardware.....	9 99
George Allen, repairing harnesses.....	14 70
J. A. Brabrook, repairing harnesses.....	2 60
V. Wilson, extra work and materials on Ward No. Five ward room.....	99 96
W. E. Livingston, coal, lime, etc.....	48 65
J. Leach, teaming.....	1 00
A. Keddie, sawing.....	14 50
H. C. Church, stationery.....	9 40
J. Hollis, teaming.....	3 00
Pevey Brothers, castings.	1 75
Badger & Holmes, turning... ..	12 55
Sewers and Drains, drain Government Building.....	13 50
Water Works, use of water at shop.....	70 50
A. Whitney, stationery.....	14 43
C. W. Kimball, gravel.....	2 00
George F. Pearson, labor.....	96 00
M. O'Flavahan, repairing lining.....	1 85
R. Dobbins, repairing boilers.....	17 20
C. A. Ross, repairing wagon.....	15 25
Charles Griffin, repairing pumps	9 00
R. Goulding, repairing roofs Government building.....	4 69
Wyatt Stevens, labor on boilers.....	3 62
A. L. Kittredge, curtains, Ward Five.....	3 43
E. M. Foster, plumbing, Ward Five.....	46 17
E. M. Foster, plumbing, Ward Four.....	87 63
Noyes Manufacturing Co., gas regulator.....	100 00
J. Ryan, plumbing.....	10 12
C. Zimmer, blank keys.....	7 67
<i>Amount carried forward</i>	<u>\$4,066 94</u>

<i>Amount brought forward</i>	\$4,066 94
Crosby Furniture Co., lumber.....	9 65
J. C. Batchelder, mouldings.....	4 88
Pay rolls for the year 1882.....	5,647 88
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	\$9,729 35
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The balance of the expenditures was for ordinary repairs on the different appropriations.

A new ward room is needed in Ward One; and I would recommend, if there be any new buildings built this year, that preparations should be made for the same early in the season.

CITY HALL LOT.

Public Buildings, for labor.....	115 44
F. Taylor, hardware.....	1 92
J. Ryan, plumbing.....	1 05
F. W. Proctor, plumbing.....	44 18
Water Works, use of water.....	103 50
Water Works, flushing sewers.....	10 00
A. L. Brooks, lumber.....	3 80
D. H. Lane, roofing.....	18 63
School Houses, paints, etc.....	6 16
T. D. Bailey, plastering.....	13 05
M. C. Pratt & Co., lumber.....	3 40
L. C. Raymond, clothes reel.....	3 00
H. B. Barnes, papering.....	3 50
H. Emery, cleaning vaults.....	9 00
C. B. Coburn & Co., paint.....	56
Roads and Bridges, shoveling snow.....	1 76
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	\$338 95
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I would recommend that the buildings on the lot be painted on the outside this season, as they need it badly.

SCHOOL HOUSES.

Balance undrawn January 1, 1882.....	\$1,845 72
Appropriation.....	40,000 00
Receipts.....	442 72
Transfer.....	3,121 13
Total.....	<u>\$45,409 57</u>

All of which has been expended as follows :

James Slavin, lot of land on Gorham street.....	\$12,796 00
George Sheldon, lot of land on Grand st., with buildings	1,856 00
Cost of new School House on Gorham street, January 1, 1883.....	11,964 64
Cost of addition to building on Grand street, January 1, 1883.....	1,478 11
J. Kendall, paint, oil, etc.....	19 42
C. B. Coburn, paint, oil, etc.....	551 96
Atkins & Harmon, boarding horse.....	41 42
Cahill Brothers, shoeing horse.....	4 00
Water Works, use of water.....	9 00
F. S. Berry, blacksmith.....	15 20
H. A. Fielding, hardware.....	135 50
Sewers and Drains, assessment Beech street.....	134 62
O. E. Averill, blacksmithing.....	20 18
A. E. Merrill, teaming.....	4 00
M. C. Pratt & Co., lumber.....	1,268 44
A. P. Bateman, lumber.....	2 13
S. D. Butterworth, plastering.....	220 35
M. O'Flavahan, tinning.....	44 61
H. B. Shattuck, hardware.....	47 03
<i>Amount carried forward.....</i>	<u>\$30,612 61</u>

<i>Amount brought forward</i>	\$30,612 61
W. Roberts, teaming.....	10 00
J. E. Griffin, repairing pump.....	3 75
George Thatcher, gongs, etc.....	44 96
C. E. Adams, hardware.....	44 17
Davis & Sargent, lumber.....	12 44
H. R. Barker, piping.....	31 00
Boston Terra Cotta Co., sign for Kirk Street School House	40 40
George Stanley, teaming.....	3 80
F. Taylor, hardware.....	83 78
George W. Pearson, horse keeping.....	446 97
Roads and Bridges, brick, sand, etc.....	4 00
F. W. Proctor, plumbing.....	915 96
A. L. Brooks & Co., lumber.....	115 35
Rice & Co., wire netting.....	44 90
W. E. Livingston, sand, etc.....	53 99
J. Ryan, plumbing.....	20 35
C. Zimmer, key blanks.....	4 33
J. Riley, teaming.....	5 50
A. T. Stearns, Georgia pine board.....	840 06
T. R. Garity, plumbing.....	116 75
Crosby Furniture Co., making desks.....	110 62
D. M. Prescott, plastering.....	138 38
Nichols & Fletcher, dualin.....	48 40
A. Keddie, sawing.....	6 55
Pevey Brothers, castings.....	287 35
W. W. Alyward, horse powders.....	6 00
J. Briggs, labor.....	41 00
J. Tryon, teaming.....	8 25
A. G. Whitcomb, chairs.....	36 00
F. Frye, mason work.....	28 50
Boston and Maine Railroad, freight.....	22 37
G. W. Sargent, maple trees.....	80 00
<i>Amount carried forward</i>	<u>\$34,268 49</u>

<i>Amount brought forward</i>	\$34,268 49
Rollins & Sargent, plastering.....	232 25
F. Perham, use of horse.....	38 13
Howes & Burnham, lumber.....	54 13
C. W. Kimball, gravel.....	47 00
V. E. Roby, teaming.....	18 00
E. A. & A. T. Smith, concreting.....	218 45
Fairban Manufacturing Co., castings.....	83 34
Bowker, Towry & Co., slates.....	56 74
Soapstone Finish Co., soapstone.....	14 00
E. W. Coburn, plastering Edson and Franklin School Houses.....	1,384 92
S. B. Tallant, concreting.....	770 51
Badger & Holmes, turning.....	3 00
Roads and Bridges.....	6 25
Cole & Nichols, castings.....	82 44
S. G. Mack, tinning.....	11 69
T. Costello, plumbing.....	6 90
Staples Brothers, drain pipe.....	194 91
Ware & Smith.....	15 60
F. Carle, team.....	7 50
Wyatt Stevens, labor on boilers.....	7 50
S. Tompkins, teaming.....	1 50
T. G. Little, teaming.....	3 50
W. Roberts, teaming.....	4 50
J. Henry, teaming.....	75
Whitney & Tibbetts, lumber.....	8 47
S. D. Butterworth, plastering.....	162 75
Lowell Gas Company.....	3 38
S. H. Jones, sinks.....	5 00
A. J. Trueworthy, teaming.....	1 25
J. Harrington, teaming.....	75
P. H. Brady, teaming.....	2 25
A. H. Chase, teaming.....	1 00
<i>Amount carried forward</i>	<u>\$37,716 85</u>

<i>Amount brought forward</i>	\$37,716 85
J. Hartwell, labor.....	22 26
J. C. Hayward, painting.....	229 50
O. A. Simpson, teaming.....	25 00
T. Kelley, teaming.....	2 00
T. D. Bailey, whitening.....	354 67
J. Lebarge, mason work.....	218 00
P. Williard, teaming.....	72 00
D. Cushing, tinning.....	14 00
Wallingford & Callaghan, repairing stoves, etc.....	23 90
L. Richards, raising buildings.....	70 00
Scannell & Wholey, repairing boilers.....	98 32
J. Leach, teaming.....	50
J. Hanley, teaming.....	1 50
F. P. Coggeshall, stationery....	1 50
E. M. Foster, plumbing.....	31 58
H. H. Wilder, repairing stoves, etc.....	9 25
G. L. Cady, harness eyes.....	3 75
Boutwell Brothers, iron.....	1 26
T. J. Fay, cleaning vaults.....	62 00
J. Burns, teaming.....	6 34
H. Emery, cleaning vaults.....	94 50
C. A. Kendall, drain pipe.....	29 67
A. F. Wright, bag salt.....	75
J. Slavin, teaming.....	54 00
S. Pope, use of horse.....	11 87
Locks & Canals Co., rent of land.....	1 00
T. Duckles.....	80
	<u>\$39,156 47</u>

The balance was for labor on the several buildings.

It will be necessary to paint a number of the school houses inside and out this season, and also the boilers in the Green school building should be taken out and one large boiler put into the middle of the

basement, and the boiler in the Franklin ought to be replaced by a new one.

I would recommend that a cellar be built under the school house in Pawtucketville, if a new school house is not built in that neighborhood.

ENGINE HOUSES.

The houses are all in good repair, and we have made no alterations this year to any of them.

The amount paid out to those under my employ and charged to the several appropriations is as follows :

To School Houses.....	\$6,909 83
School Janitors.....	9,856 18
Schools	1,014 88
Fire Department.....	197 64
Janitor of Police Court.....	734 80
Health Department.....	126 35
Roads and Bridges.....	33 89
Paupers.....	266 19
Water Works.....	75 27
Reserved Fund.....	718 56
Police.....	176 86
	<u>\$20,110 45</u>

PERSONAL PROPERTY OWNED BY THE CITY

UNDER MY CHARGE JANUARY 1, 1883.

10,000 feet pine boards.....	\$400 00
1,000 feet Georgia pine floor boards.....	60 00
100 fence pickets.....	4 00
150 feet white wood.....	7 50
50 feet 2-inch pine plank.....	2 00
350 feet 3-inch pine plank.....	21 00
1,000 feet old lumber.....	15 00
10 gallons varnish.....	11 00
2 old stoves.....	8 00
180 primary desks.....	180 00
167 grammar desks.....	200 00
9 teachers' desks.....	180 00
5 boxes glass.....	25 00
90 desk irons, large size.....	15 00
130 pedestals.....	75 00
16 old tables.....	10 00
100 desk irons, small size.....	15 00
8 water pails.....	2 00
4 waste baskets.....	2 40
2 coal hods.....	1 40
44 gross chalk.....	5 50
40 settees at the several armories.....	40 00
13 mats.....	13 00
2 gas fixtures.....	3 00
10 grammar chairs.....	6 00
130 primary chairs.....	65 00
10 yards enamel cloth.....	5 00
25 small chairs.....	15 00
15 large coffins.....	75 00
24 small coffins.....	72 00
<i>Amount carried forward.....</i>	<u>\$1,633 80</u>

<i>Amount brought forward</i>	\$1,633 80
8 ladders	25 00
100 small chairs in Ward Six ward room.....	50 00
11 tables in Ward Six ward room.....	16 50
70 chairs in Ward Three ward room.....	35 00
16 tables in Ward Three ward room.....	24 00
28 settees in ward rooms belonging to public build- ings	28 00
360 chairs at Green (evening school).....	275 00
90 tables at Green (evening school).....	275 00
240 stools at Green (evening school).....	240 00
4 tables at Howard Mission (evening school).....	12 00
1 teacher's desk at Howard Mission (evening school)	3 00
4 settees at Howard Mission (evening school).....	4 00
15 chairs at Howard Mission (evening school).....	7 50
600 feet rubber hose at different schools.....	70 00
2 casks nails.....	8 50
9 door sets.....	6 75
2 floor sets.....	10 00
1 horse.....	100 00
3 wagons.....	175 00
1 harness	25 00
1 sleigh.....	40 00
2 blankets and one hose cover.....	9 00
1 cast steel bell on Market House.....	900 00
1 bell on High street church.....	500 00
1 bell on Varnum school.....	1,000 00
1 bell on Engine House, Fletcher street.....	600 00
1 bell on Engine House, Gorham street.....	300 00
3 flag staffs	1,200 00
Furniture at the City Government building and Hunting- ton and Jackson halls.....	9,000 00
Furniture at school houses, not included in real estate...	10,500 00
Furniture in armories and drill rooms.....	550 00
	<u>\$27,623 05</u>

SCHEDULE OF TOOLS BELONGING TO THE CITY

UNDER MY CHARGE JANUARY 1, 1883.

2 picks.....	\$2 00
12 shovels.....	8 00
10 wheelbarrows.....	20 00
1 shingle ripper.....	75
1 steel yard.....	75
2 grindstones	15 00
4 augers.....	3 00
4 pair steps.....	5 00
6 wood saws.....	5 00
4 hand screws.....	3 00
10 axes.....	7 50
4 mason's jacks.....	10 00
12 paint pots.....	6 00
12 oil eans.....	12 00
1 set of painted rigging for stage.....	30 00
1 saw bench and engine in shop.....	270 00
	<hr/>
	\$398 00
	<hr/>

REAL ESTATE OWNED BY THE CITY.

City Government Building.....	\$30,000 00
Huntington and Jackson Halls.....	46,200 00
Market House.....	56,000 00
City Scales, rear of Market House.....	1,000 00
Shed, back of Market House.....	150 00
Butler School House on Gorham street (unfinished)....	25 000 00
High School House on Ann and Kirk streets.....	45,300 00
Bartlet School House on Clark street.....	13,000 00
Edson School House on Highland street.....	17,400 00
Colburn School House on Lawrence street.....	20,000 00
Franklin School House on Branch street.....	20,000 00
Moody School House on East Merrimaek street	12,000 00
Green School House on East Merrimack street.....	105,800 00
Mann School House on Lewis street.....	13,500 00
Varnum School House on Myrtle street.....	17,000 00
Highland School House on Pine street.....	38,000 00
Sherman School House on Powell street.....	7,000 00
Primary School House on Race street.....	3,400 00
Primary School House on Elliott street.....	6,000 00
Primary School House on Church street.....	5,000 00
Primary School House on School street.....	6,700 00
Primary School House on High street.....	3,600 00
Primary School House on Carter street.....	7,500 00
Primary School House on Charles street.....	2,500 00
Primary School House on Fayette street.....	5,500 00
Primary School House on Rock street.....	2,100 00
Primary School House on Cabot street.....	3,250 00
Primary School House on West Sixth street.....	10,000 00
Primary School House on River street.....	5,500 00
<i>Amount carried forward.....</i>	<u>\$528,400 00</u>

<i>Amount brought forward</i>	\$528,400 00
Primary School House on Ames street.....	7,700 00
Primary School House on Dover street.....	7,700 00
Primary School House on Tenth street.....	7,700 00
Primary School House on Cheever street.....	3,476 00
Primary School House on London street.....	3,255 00
Primary School House on Chapel street.....	5,400 00
Primary School House on Central and Chapel streets...	9 000 00
Primary School House on Howard street.....	4,000 00
Primary School House on Worthen street.....	26,000 00
Primary School House on Central street.....	21,200 00
Primary School House on Common street.....	34,000 00
Primary School House on High street.....	15,000 00
Primary School House on Agawam street.....	6,000 00
Primary School House on Grand street (unfinished)....	3,000 00
Primary School House on Varnum avenue.....	500 00
Primary School House on Mammoth avenue.....	3,000 00
Primary School House on Middlesex Village.....	3,000 00
Primary School House on Kirk street.....	28,000 00
Hose Carriage House on Fayette street.....	3,100 00
Hose Carriage House on Fletcher street.....	13,640 00
Hose Carriage House on Central street.....	3,700 00
Hose Carriage House on Warren street.....	2,500 00
Engine House and Ward Room on Branch street.....	17,784 00
Engine House and Ward Room on Fourth street.....	13,000 00
Hook and Ladder House, Ward Room, Carpenter Shop and Armory on Middle street.....	21,000 00
Double Engine House on Middle street.....	14,500 00
Engine House on Gorham street.....	13,200 00
Engine House, Ayer's City.....	500 00
Alms House at City Farm.....	25,000 00
House for Chaplain at City Farm.....	2,500 00
House for Aged People at City Farm.....	2,400 00
Pest House at City Farm.....	2,000 00
<i>Amount carried forward</i>	\$851,155 00

<i>Amount brought forward</i>	\$851,155 00
Lands and Buildings on Fletcher street.....	3,500 00
Lands and Buildings on Cross, Legrange and Broadway	51,000 00
Public Landing rear of Market House, exclusive of Land set off by Locks & Canals Co.....	1,200 00
Lot of Land on Chelmsford street.....	1,600 00
Lot of Land on Fletcher and Whiting streets.....	1,150 00
Lot of Land on Middle street.....	10,600 00
Lot of Land on Tenth street.....	5,000 00
Lot of Land on First street.....	190 00
North Common.....	17,000 00
South Common.....	23,300 00
Mount Vernon Park.....	2,000 00
Belvidere Park.....	2,300 00
City Hall Building Lot.....	85,300 00
	<u>\$1,045,295 00</u>

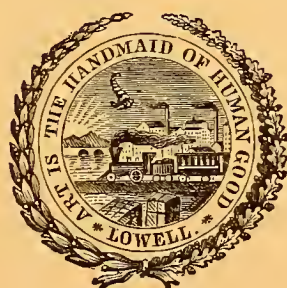
The real estate and personal property belonging to the city occupied and used by the Water Works, net cost to January 1st, 1883.....\$2,323,048 97

Respectfully submitted.

W. D. CHENEY,

Superintendent of Public Buildings.

ANNUAL REPORT
OF THE
SUPERINTENDENT OF CITY SCALES
AND
MEASURER OF WOOD AND BARK,
OF THE
CITY OF LOWELL,
FOR THE YEAR 1882.



LOWELL, MASS.:
PRINTED BY CAMPBELL & HANSCOM, 22 CENTRAL ST.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 4, 1883.

Read and placed on file.

DAVID W. O'BRIEN, *City Clerk*.

REPORT.

In compliance with the requirements of the ordinance, I have the honor to submit the following report for the year 1882 :

I have, during the year, weighed —

						Tons.	Pounds.
1896	Loads of Hay	.	.	.	.	1501	380
450	" Straw	.	.	.	.	324	1923
794	" Coal	.	.	.	.	1099	805
49	" Iron	.	.	.	.	39	285
14	" Oil	.	.	.	.	12	910
41	" Bones	.	.	.	.	33	140
4	" Carrots	.	.	.	.	1	1610
31	" Paper stock	.	.	.	.	53	1475
5	" Excelsior	.	.	.	.		1760
6	" Oats	.	.	.	.	8	690
5	" Corn	.	.	.	.	3	1805
5	" Dressed hogs	.	.	.	.	2	665
3	" Squash	.	.	.	.	1	1555
1	" Cabbage	.	.	.	.	1	210
1	" Scrap leather	.	.	.	.		1275
1	" White lead	.	.	.	.		1390
4	" Salt	.	.	.	.	3	525
1	" Shorts	.	.	.	.	1	575
4	" Iron gear	.	.	.	.	3	1885

REPORT.

	Pounds.
1 Load of Wood	490
1 Glue cask	83
1 Pig	55
1 Cow	—
342 Horses	—
20 Pairs of oxen	—
6 Wagons	—
Received for fees for weighing	\$684 55

A. P. LAKE,
Superintendent of City Scales.

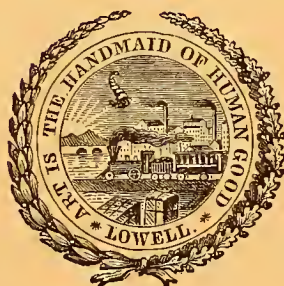
ANNUAL REPORT
 OF THE
 MEASURER OF WOOD AND BARK,
 FOR THE YEAR 1882.

I have, during the year, measured —

	Cords.	Feet.
5641 Loads of wood	5468	3
562 Loads of manure	351	4 $\frac{3}{4}$
Received for fees for measuring		\$309 60

A. P. LAKE, *Measurer.*

ANNUAL REPORT
OF THE
SEALER OF WEIGHTS AND MEASURES
OF THE
CITY OF LOWELL,
FOR THE YEAR 1882.



LOWELL, MASS.:
PRINTED BY CAMPBELL & HANSCOM, 22 CENTRAL ST.
1883.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 4, 1883.

Read and placed on file.

DAVID W. O'BRIEN, *City Clerk.*

REPORT.

CITY SEALER'S OFFICE, 26 GORHAM ST., }
LOWELL, MASS., Dec. 30, 1882. }

To the Honorable the Mayor and Board of Aldermen:

I have inspected and sealed the following weights, measures, and scales, for the year 1882 : —

20 Hay, coal, and track scales, over 5,000 pounds.
265 Platform scales.
546 Counter-balance scales.
325 Butcher and spring scales.
4325 Weights.
562 Measures.

I have condemned as not up to the standard, 2 track scales, 17 platform scales, 10 counter scales, 62 weights, and 95 milk measures.

I have received for fees and paid to the City Treasurer, \$225.26.

JAMES MURPHY,
City Sealer.

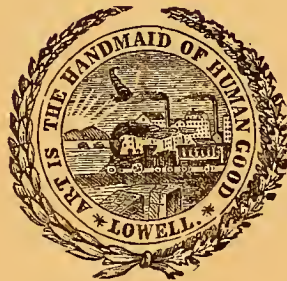
CITY DOCUMENT, 1882.

SALARIES

OF THE

OFFICERS OF THE CITY OF LOWELL

FOR THE YEAR 1883.



LOWELL, MASS.: .
COURIER PRESS: MARDEN & ROWELL.
1882.

CITY OF LOWELL.

In the Year Eighteen Hundred and Eighty-two.

RESOLUTION

ESTABLISHING THE SALARIES OF OFFICERS OF THE CITY OF LOWELL FOR
THE YEAR 1883.

*RESOLVED, by the Board of Aldermen and Common
Council of the City of Lowell, in City Council as-
sembled, as follows:—*

The salaries of the several city officers for that portion of the year beginning on the first of January, and ending on the thirty-first day of December, one thousand eight hundred and eighty-three, shall be at the rate herein mentioned; to be paid monthly, unless herein otherwise ordered.

SECTION 1. The salary of the MAYOR shall Mayor
be at the rate of two thousand dollars per annum.

SEC. 2. The salary of the CITY CLERK shall City Clerk.
be at the rate of eighteen hundred dollars per annum.

City
Treasurer.

SEC. 3. The salary of the CITY TREASURER shall be at the rate of twenty-five hundred dollars per annum for performing the duties of City Treasurer and Collector of Taxes. He shall annually give a bond in the sum of fifty thousand dollars, with good and sufficient sureties, satisfactory to the Mayor and Aldermen, for the faithful performance of his duties, and to account for all sums of money received in the sales of Water Bonds and the collection of Water Rates, and in the capacity of City Treasurer and Collector of Taxes.

Auditor of
Accounts.

SEC. 4. The salary of the AUDITOR OF ACCOUNTS shall be at the rate of fifteen hundred and fifty dollars per annum.

City
Solicitor.

SEC. 5. The salary of the CITY SOLICITOR shall be at the rate of fourteen hundred dollars per annum, which shall be in full for all services rendered the city.

Civil
Engineer.

SEC. 6. The salary of the CIVIL ENGINEER shall be at the rate of twenty-five hundred dollars per annum, which shall be in full for services as Civil Engineer and Engineer of the Water Board; and he shall devote his whole time to the service of the city. He shall be allowed such assistance as the Chairman of the Joint Standing Committee on Streets, the Chairman of the Standing Committee on Sewers,

and the President of the Lowell Water Board may determine.

SEC. 7. The salary of the CITY PHYSICIAN AND SUPERINTENDENT OF BURIALS shall be at the rate of three hundred dollars per annum, which shall be in full for all services rendered the city, including his duties as a member of the Board of Health.

City Physi-
cian and Su-
perintend-
ent of
Burials.

SEC. 8. The salary of the LIBRARIAN OF THE CITY LIBRARY shall be at the rate of twelve hundred dollars per annum.

Librarian of
the City
Library.

SEC. 9. The salary of the CLERK OF THE COMMON COUNCIL shall be at the rate of two hundred and fifty dollars per annum.

Clerk of the
Common
Council.

SEC. 10. The salary of the CITY MESSENGER shall be at the rate of ten hundred dollars per annum.

City
Messenger.

SEC. 11. The salary of the MEASURER OF WOOD AND BARK in the rear of the Market House building shall be at the rate of six hundred dollars per annum, and he shall account for all fees received by him in his official capacity, shall pay the same into the treasury monthly, and at the same time make a report of the amount so paid to the Auditor of Accounts; and also shall be required to devote

Measurer
of Wood
and Bark.

daily to his duty such time as the Mayor may direct. The salary of any additional measurers of wood and bark shall be at such rate as the Mayor and Aldermen may from time to time determine ; *provided*, that the same shall not exceed the amount of fees received.

President
of the
Lowell Water Board.

SEC. 12. The salary of the PRESIDENT OF THE LOWELL WATER BOARD shall be at the rate of three hundred dollars per annum.

SEC. 13. The Joint Committee on Accounts and the Joint Committee on Finance may provide such clerical assistance in the offices of the City Clerk, City Treasurer, Auditor of Accounts and Assessors of Taxes as may be necessary, the expense thereof to be charged to the Reserved Fund. The Joint Committee on Education may provide such clerical assistance to the Librarian of the City Library as may be necessary, the expense thereof to be charged to the Appropriation for Library. The Joint Committee on Military Affairs may provide such clerical assistance as may be necessary in the distribution of State Aid, the expense thereof to be charged to the Reserved Fund.

POLICE.

City
Marshal.

SEC. 14. The salary of the CITY MARSHAL shall be at the rate of seventeen hundred dol-

lars per annum; and he shall furnish a horse and carriage for the use of the Marshal and his deputy.

SEC. 15. The compensation of the DEPUTY MARSHAL and CAPTAIN of the NIGHT WATCH shall be at the rate of three dollars per day each.

Deputy
Marshal
and Capt. of
the Night
Watch.

The compensation of the SERGEANTS OF POLICE and DETECTIVES shall be at the rate of two dollars and seventy-five cents per day each.

Night Police
Officers.

The compensation of the DAY and NIGHT POLICE OFFICERS shall be at the rate of two dollars and fifty cents per day each.

SEC. 16. All fees received by the officers mentioned in the two preceding sections, for attendance as witnesses, or for any other service in an official capacity, shall be paid by the officer receiving the same, to the City Treasurer, and said officer shall, at the same time, report to the Auditor of Accounts, the amount thus paid; *provided, however*, that said officers need not account for any fees for travel and attendance before the Supreme Judicial and Superior Courts as witnesses.

SEC. 17. The STANDING JUSTICE OF THE POLICE COURT OF LOWELL shall be paid at

The Stand-
ing Justice
of the Po-
lice Court
of Lowell.

the rate of one hundred dollars per annum, for receiving complaints, issuing warrants, and trying cases under the Forty-Second Chapter of the General Statutes, or any subsequent Act or Ordinance concerning truant children and absentees from school.

SUPERINTENDENTS AND INSPECTORS.

Superintendent of Streets.

SEC. 18. The salary of the SUPERINTENDENT OF STREETS shall be at the rate of eighteen hundred dollars per annum. The city shall furnish a horse for his use.

Superintendent of Public Buildings.

SEC. 19. The salary of the SUPERINTENDENT OF PUBLIC BUILDINGS shall be at the rate of fifteen hundred dollars per annum. The city shall furnish a horse and conveyance for the use of himself and the men under his charge.

Superintendent of the Water Works.

SEC. 20. The salary of the SUPERINTENDENT OF THE WATER WORKS shall be at the rate of sixteen hundred dollars per annum, and he shall furnish a horse and carriage for his own use.

Superintendent of City Scales.

SEC. 21. The salary of the SUPERINTENDENT OF CITY SCALES shall be at the rate of

two hundred dollars per annum, and he shall pay into the City Treasury all moneys received for fees.

The salary of any additional weigher of hay and other articles shall be at such rate as the Mayor and Aldermen may from time to time determine, provided that the same shall not exceed the amount of fees received.

SEC. 22. The salary of the FISH WARDEN shall be at the rate of forty dollars per annum.

Fish
Warden.

SEC. 23. The salary of the SEALER OF WEIGHTS AND MEASURES shall be at the rate of four hundred dollars per annum, and all fees received by him shall be paid into the City Treasury monthly, and he shall at the same time report to the Auditor of Accounts the amount of such payment.

Sealer of
Weights
and
Measures.

SEC. 24. The salary of the SECRETARY OF THE BOARD OF OVERSEERS OF THE POOR shall be at the rate of ten hundred dollars per annum.

Sec'y of the
Board of
Overseers
of the Poor.

SEC. 25. The salary of the appointed members of the BOARD OF HEALTH shall be at the rate of five hundred dollars per annum each.

Chairman
of the Board
of Health.

REGISTRARS OF VOTERS.

SEC. 26. The salary of the elected REGIS-

Registrars
of Voters.

TRARS OF VOTERS shall be at the rate of three hundred dollars per annum each.

ASSESSORS' DEPARTMENT.

Chairman
of the
Board of
Assessors.

Secretary
and other
Assessors.

SEC. 27. The salary of the CHAIRMAN OF THE BOARD OF ASSESSORS shall be nine hundred dollars per annum; and the salary of the SECRETARY of the BOARD OF ASSESSORS shall be eight hundred and seventy-five dollars per annum, and he shall keep a record of all abatements and changes in tax bills; and the salary of each of the other Assessors shall be eight hundred dollars per annum; and the said Assessors shall make out and distribute the tax bills. They shall receive their pay pro rata monthly, during the working season. The Assessors shall devote their whole time, from March 1st to October 15th, to the service of the city, and shall engage in no other business or calling during that time. They shall jointly make a valuation of the real estate in the city, and enter the same in a book to be kept for mutual reference, the same to be done before entering upon a subdivision of their duties of assessing in May.

FIRE DEPARTMENT.

SEC. 28. The salaries of the several members of the Fire Department for the year beginning April 1st, one thousand eight hundred

and eighty-three, shall be as herein mentioned, to be paid semi-annually, unless otherwise ordered.

The salary of the CHIEF ENGINEER shall be at the rate of fourteen hundred dollars per annum, payable monthly, which shall be in full payment for all services which may be required of him by the City Council; and he shall devote his whole time to the duties of his office.

Chief
Engineer.

The salary of the FIRST ASSISTANT ENGINEER shall be at the rate of two hundred dollars, and of the other Assistant Engineers at the rate of one hundred and seventy-five dollars each, per annum.

First Ass't
Engineer.

The SECRETARY OF THE BOARD OF ENGINEERS, who shall be a member of the Board, shall receive twenty-five dollars additional, which shall be in full payment for all the services which may be required of him by the Mayor and Aldermen, the Chief Engineer and the Board of Engineers.

The Sec'y of
the Board
of Engin-
eers.

The FOREMEN of the respective Hose, Hook and Ladder and Steam Fire Engine Companies shall be paid at the rate of one hundred and sixty dollars each per annum.

Foremen.

DRIVEES of Steamers, Hook and Ladder, Horse Hose Carriages and Protective Wagon, who shall perform all the duties of Stewards,

Drivers.

and all other permanent men shall be paid two dollars and twenty-five cents per day, payable monthly.

Engineers
of Steam
Fire En-
gines.

ENGINEERS OF STEAM FIRE ENGINES shall be paid at the rate of two hundred dollars per annum.

Ass't Engi-
neers of
Steam Fire
Engines.

ASSISTANT ENGINEERS OF STEAM FIRE ENGINES shall be paid at the rate of one hundred and fifty dollars per annum.

Members.

All other MEMBERS of Steam Fire Engine, Hose and Hook and Ladder Companies shall be paid at the rate of one hundred and fifty dollars per annum each, with the exception of Pawtucketville Hose Co., whose pay shall be twenty-five dollars per annum each.

SEC. 29. Whenever any person in the employment of the city shall demand payment of his salary, or any part thereof, it shall be the duty of the Auditor and City Treasurer to deduct therefrom any and all sums of money due from such officer to the city.

